

IT PLAN

Note: Projects with a \$0 total funding are active capital projects funded in prior CIP's that do not require additional resources.

	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2022 - FY 2031
IT Plan											
Document Management											
Document Imaging	10,000	10,000	10,000	10,000	110,000	10,000	10,000	10,000	10,000	10,000	200,000
Document Management Total	10,000	10,000	10,000	10,000	110,000	10,000	10,000	10,000	10,000	10,000	200,000
Financial Systems											
Business Tax System/Reciprocity Contractor System	0	0	0	0	0	0	305,000	0	0	0	305,000
Employee Pension Administration System	0	0	0	0	0	0	0	0	0	0	0
Enterprise Resource Planning System	40,000	40,000	40,000	40,000	0	0	0	0	0	0	160,000
Personal Property Tax System	144,900	152,200	159,800	167,800	176,200	185,000	194,200	203,900	214,100	225,000	1,823,100
Phone, Web, Portable Device Payment Portals	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	250,000
Real Estate Account Receivable System	0	0	0	0	175,000	0	0	0	200,000	0	375,000
Real Estate Assessment System (CAMA)	15,000	15,000	15,000	15,000	60,000	15,000	15,000	15,000	15,000	15,000	195,000
Financial Systems Total	224,900	232,200	239,800	247,800	436,200	225,000	539,200	243,900	454,100	265,000	3,108,100
Geographic Information Systems											
GIS Development	70,000	30,000	70,000	30,000	85,000	40,000	70,000	30,000	70,000	30,000	525,000
Geographic Information Systems Total	70,000	30,000	70,000	30,000	85,000	40,000	70,000	30,000	70,000	30,000	525,000
Network Services											
Connectivity Initiatives	608,000	639,000	670,000	704,000	740,000	780,000	780,000	400,000	400,000	740,000	6,461,000
Database Infrastructure	40,000	40,000	40,000	40,000	0	0	0	0	0	0	160,000
Enterprise Camera System	0	0	0	0	0	0	0	0	0	0	0
Enterprise Collaboration	40,000	40,000	40,000	40,000	0	0	0	0	0	0	160,000
Enterprise Data Storage Infrastructure	400,000	350,000	350,000	350,000	0	0	0	0	0	0	1,450,000
Enterprise Service Catalog	40,000	40,000	40,000	40,000	0	0	0	0	0	0	160,000
Information Technology Equipment Replacement	922,000	996,000	1,001,000	1,006,000	1,011,000	1,017,000	822,000	829,000	835,000	842,000	9,281,000
Information Technology Lump Sum Funding	0	1,200,000	3,200,000	3,200,000	3,200,000	3,200,000	3,400,000	3,400,000	3,400,000	5,000,000	29,200,000
LAN Development	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	250,000
LAN/WAN Infrastructure	1,438,700	952,400	466,500	480,900	1,732,700	913,900	922,800	931,800	941,800	952,800	9,734,300
Municipal Fiber	14,553,000	160,000	168,000	176,000	185,000	195,000	204,000	215,000	225,000	236,000	16,317,000
Network Security	510,000	500,000	605,000	400,000	400,000	800,000	350,000	350,000	350,000	500,000	4,765,000
Network Server Infrastructure	300,000	300,000	300,000	0	0	0	0	0	0	0	900,000
Remote Access	170,000	175,000	0	0	0	0	0	0	0	0	345,000
Time & Attendance System Upgrade	0	0	40,000	0	0	0	0	55,000	0	0	95,000
Upgrade Work Station Operating Systems	233,000	386,000	290,000	395,000	100,000	105,000	110,000	115,000	121,000	127,000	1,982,000
Voice Over Internet Protocol (VoIP)	155,000	120,000	80,000	60,000	0	0	0	0	0	0	415,000
Network Services Total	19,434,700	5,923,400	7,315,500	6,916,900	7,393,700	7,035,900	6,613,800	6,320,800	6,297,800	8,422,800	81,675,300

Note: Projects with a \$0 total funding are active capital projects funded in prior CIP's that do not require additional resources.

	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2022 - FY 2031
Other System Development Projects											
Computerized Maintenance Management System (CMMS)	325,000	159,000	0	0	0	0	0	0	0	0	484,000
Council Chamber Technology Upgrade	0	440,000	0	0	66,000	0	0	0	0	450,000	956,000
DCHS Integrated Client Information System	300,000	TBD	TBD	0	0	0	0	0	0	0	300,000
Enterprise Maintenance Mgmt System	40,000	40,000	40,000	40,000	380,600	0	0	0	0	380,000	920,600
Fleet Management System	0	0	0	0	0	0	0	0	0	0	0
FOIA System Replacement	100,000	0	0	0	0	0	0	0	0	0	100,000
HIPAA & Related Health Information Technologies	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	250,000
Impound Lot System Replacement	150,000	0	0	0	0	0	0	0	0	0	150,000
Library Information Technology Equipment Replacement	32,000	0	0	0	0	0	0	0	0	0	32,000
Library Public Access Computers and Print Mgmt System	0	85,000	0	0	0	0	0	0	0	0	85,000
Library Scanning Equipment and DAMS	0	0	0	0	0	0	0	0	0	0	0
Library Self-Service Stations/Equipment	0	0	0	152,000	0	0	0	0	0	0	152,000
Migration of Integrated Library System to SAAS Platform	0	0	0	0	0	0	0	0	0	0	0
Office of Voter Registrations and Elections Equipment Replacement	0	0	0	0	0	0	0	1,000,000	0	0	1,000,000
OHA Point-of-Sale System Replacement	0	0	150,000	0	0	0	0	0	0	0	150,000
OHA Records Management System Replacement	5,000	0	0	0	0	0	0	0	0	0	5,000
Permit Processing	100,000	100,000	100,000	100,000	100,000	350,000	350,000	100,000	100,000	100,000	1,500,000
Project Management Software	113,000	0	0	0	0	0	0	0	0	0	113,000
Recreation Database System	200,000	10,000	10,000	10,000	65,000	10,000	10,000	10,000	10,000	10,000	345,000
Small Systems Replacements	0	0	0	0	0	250,000	250,000	250,000	250,000	250,000	1,250,000
Other System Development Projects Total	1,390,000	859,000	325,000	327,000	636,600	635,000	635,000	1,385,000	385,000	1,215,000	7,792,600
Public Access Development											
Customer Relationship Management System	0	0	0	0	0	0	0	0	0	0	0
Electronic Government/Web Page	160,000	50,000	250,000	50,000	50,000	50,000	50,000	0	0	250,000	910,000
Public Access Development Total	160,000	50,000	250,000	50,000	50,000	50,000	50,000	0	0	250,000	910,000
Public Safety Systems											
AJIS System	3,401,000	1,829,000	259,000	259,000	268,000	258,000	258,000	257,000	257,000	1,725,000	8,771,000
Computer Aided Dispatch (CAD) System Replacement	104,000	108,000	114,000	6,819,000	125,000	132,000	138,000	145,000	152,000	160,000	7,997,000
Courtroom Trial Presentation Technology	0	100,000	0	0	100,000	100,000	25,000	0	0	100,000	425,000
Electronic Citations Implementation	420,000	0	0	0	0	0	0	0	0	420,000	840,000
Fire Dept RMS	307,500	0	0	0	0	0	0	0	0	0	307,500
Parking Citation System Replacement	135,000	0	0	0	0	0	0	0	0	135,000	270,000
Radio System Upgrade	950,500	4,657,600	1,520,000	2,742,000	0	0	0	2,000,000	0	0	11,870,100
Public Safety Systems Total	5,318,000	6,694,600	1,893,000	9,820,000	493,000	490,000	421,000	2,402,000	409,000	2,540,000	30,480,600
Grand Total	26,607,600	13,799,200	10,103,300	17,401,700	9,204,500	8,485,900	8,339,000	10,391,700	7,625,900	12,732,800	124,691,600

DOCUMENT IMAGING

DOCUMENT SUBSECTION: Document Management
MANAGING DEPARTMENT: Information Technology Services

PROJECT LOCATION: Citywide
REPORTING AREA: Citywide
PROJECT CATEGORY: IT Plan
ESTIMATE USEFUL LIFE: 6 - 10 Years

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed Government

Document Imaging													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	2,584,375	2,384,375	10,000	10,000	10,000	10,000	110,000	10,000	10,000	10,000	10,000	10,000	200,000
Financing Plan													
Cash Capital	2,207,375	2,007,375	10,000	10,000	10,000	10,000	110,000	10,000	10,000	10,000	10,000	10,000	200,000
GO Bond Interest Earnings	337,000	337,000	0	0	0	0	0	0	0	0	0	0	0
Prior Year CIP/Close-Out	40,000	40,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	2,584,375	2,384,375	10,000	10,000	10,000	10,000	110,000	10,000	10,000	10,000	10,000	10,000	200,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Funding added to project for FY 2031.

PROJECT DESCRIPTION & JUSTIFICATION

This project provides a content management solution to digitally capture content to make it more readily available for searching and indexing. The retrieval of electronic records supports delivery of government services in a more efficient manner. Document imaging reduces physical storage. Technical investments will adhere to best practices and fit within the City's overall technology architecture.

Funds are used to support continual improvements and new development to document imaging technologies that support the City's core business applications. This project provides funding for hardware, software, licensing, upgrades, and professional services related to document imaging initiatives. The introduction of new enterprise applications has increased departmental interest in document imaging software and interfaces to line-of-business applications (APEX permitting system).

In FY 2019, the City migrated to an enterprise licensing model, which keeps the system viable and supports the product lifecycle. The upgrade afforded better capabilities to integrate with the City's new Permitting system.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

BUSINESS TAX SYSTEM

DOCUMENT SUBSECTION: Financial Systems
MANAGING DEPARTMENT: Department of Finance

PROJECT LOCATION: Citywide
REPORTING AREA: Citywide
PROJECT CATEGORY: IT Plan
ESTIMATE USEFUL LIFE: 6 - 10 Years

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed Government

Business Tax System/Reciprocity Contractor System													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	1,529,595	1,224,595	0	0	0	0	0	0	305,000	0	0	0	305,000
Financing Plan													
Cash Capital	1,229,615	924,615	0	0	0	0	0	0	305,000	0	0	0	305,000
GO Bonds	299,980	299,980	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	1,529,595	1,224,595	0	0	0	0	0	0	305,000	0	0	0	305,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

No changes from previous CIP.

PROJECT DESCRIPTION & JUSTIFICATION

The City's Business Tax System integrates the accounts receivable processes and business licenses, business personal property taxes, and other business-related taxes. In FY2020, City stakeholders implemented enhancements to this system with new initiatives such as an online business tax portal. An additional portion of the business tax portal was completed later that year, which included the online filing and payments. This provided taxpayers a modern, online business tax payment experience.

The system is currently in a sustain and maintain status, with an upgrade planned this year which will onboard new features and functionality to make it easier to assign non-owners to multiple business accounts. This project has facilitated many enhancements that have enabled the City to provide online payment of taxes during the COVID-19 pandemic.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

EMPLOYEE PENSION ADMINISTRATION SYSTEM

DOCUMENT SUBSECTION: Financial Systems
MANAGING DEPARTMENT: Department of Finance

PROJECT LOCATION: Citywide
REPORTING AREA: Citywide
PROJECT CATEGORY: IT Plan
ESTIMATE USEFUL LIFE: 6 - 10 Years

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed Government

Employee Pension Administration System													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	350,000	350,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan													
Cash Capital	0	0	0	0	0	0	0	0	0	0	0	0	0
Pension Admin. Fees	350,000	350,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	350,000	350,000	0	0	0	0	0	0	0	0	0	0	0
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

No changes from previous CIP.

PROJECT DESCRIPTION & JUSTIFICATION

This project provides funds to acquire and implement an Employee Pension Administration System to support the City's responsibilities for retirement plan administration. Currently, the City uses an outside contractor to provide all plan administration services for the Supplemental Retirement Plan. Jurisdictions larger than the City typically perform this function internally while those smaller than Alexandria outsource the function to contractors. Staff is studying whether bringing plan administration services in-house would provide cost or performance efficiencies. If the City ultimately decides to manage this in-house, a software system will be required. This project supports the Finance Department's strategic plans for long-term financial stability of the City.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

ENTERPRISE RESOURCE PLANNING SYSTEM

DOCUMENT SUBSECTION: Financial Systems
MANAGING DEPARTMENT: Department of Finance

PROJECT LOCATION: Citywide
REPORTING AREA: Citywide
PROJECT CATEGORY: IT Plan
ESTIMATE USEFUL LIFE: Varies

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed Government

Enterprise Resource Planning System													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	4,183,312	4,023,312	40,000	40,000	40,000	40,000	0	0	0	0	0	0	160,000
Financing Plan													
Cash Capital	1,283,312	1,123,312	40,000	40,000	40,000	40,000	0	0	0	0	0	0	160,000
GO Bonds	2,900,000	2,900,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	4,183,312	4,023,312	40,000	40,000	40,000	40,000	0	0	0	0	0	0	160,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

No changes from previous CIP.

PROJECT DESCRIPTION & JUSTIFICATION

In 2013-2014 the City implemented an Enterprise Resource Planning (ERP) software suite to improve the automation and support for a range of administrative and management applications. City staff have completed the implementation of the following modules: General Ledger, Accounts Payable, Purchasing, Budgeting, core Human Resources modules, Fixed Assets, and Payroll. Funds were used in FY 2019 to implement Bids and Contracts and Vendor Self-Service as well as to procure Cashiering and Accounts Receivables modules.

Prior year project funds will be used to complete several ancillary functions for this system, procure additional modules and implement application interfaces as applicable. Additional funding requests will occur in the out years to sustain and expand this system as needed as well as prepare for a potential system replacement when needed.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

PERSONAL PROPERTY (VEHICLE/CAR) TAX SYSTEM

DOCUMENT SUBSECTION: Financial Systems
MANAGING DEPARTMENT: Department of Finance

PROJECT LOCATION: Citywide
REPORTING AREA: Citywide
PROJECT CATEGORY: IT Plan
ESTIMATE USEFUL LIFE: 6 - 10 Years

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed Government

Personal Property Tax System													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	4,270,239	2,447,139	144,900	152,200	159,800	167,800	176,200	185,000	194,200	203,900	214,100	225,000	1,823,100
Financing Plan													
Cash Capital	4,270,239	2,447,139	144,900	152,200	159,800	167,800	176,200	185,000	194,200	203,900	214,100	225,000	1,823,100
Financing Plan Total	4,270,239	2,447,139	144,900	152,200	159,800	167,800	176,200	185,000	194,200	203,900	214,100	225,000	1,823,100
Operating Impact	1,334,000	0	0	121,000	127,000	134,000	140,000	147,000	154,000	162,000	170,000	179,000	1,334,000

CHANGES FROM PRIOR YEAR CIP

Funding added to project for FY 2031.

PROJECT DESCRIPTION & JUSTIFICATION

The personal property tax system accounts for the assessment and tax payment processing for all vehicles parked, stored, or garaged in the City; the processing of appeals for personal property assessments; maintenance of vehicle tax records; and the certification of qualified vehicles for personal property tax relief.

In the 1990s, ITS staff developed the City's current personal property tax system as a stand-alone software application for the administration of all vehicle taxes. Since then, ITS and Finance staff have reprogrammed and modified it over the years, as necessary. Nearing its fourth decade of service, the personal property tax system needs to be retired.

During FY 2019, staff explored a few viable solutions to replace the current system. These product reviews provided insights into the current practices and processes available in more modern systems. This analysis continued into FY 2020, to determine the most ideal timeline, costs, and methodology for deciding the path forward.

Prior year funding will be used to begin implementing a modern, commercial-off-the-shelf personal property tax system. The City anticipates the replacement system will be in production in FY 2022. The scope of work includes installation, configuration, data conversion, training, and implementation of the new system.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

Implementation of project will likely require additional staff support for database administration; Personal Property processing have considerably more volume than the other modules that are part of this enterprise system.

PORTABLE DEVICE (PHONE, WEB) REPORTING/PAYMENT PORTALS

DOCUMENT SUBSECTION: Financial Systems
MANAGING DEPARTMENT: Department of Finance

PROJECT LOCATION: Citywide
REPORTING AREA: Citywide
PROJECT CATEGORY: IT Plan
ESTIMATE USEFUL LIFE: 6 - 10 Years

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed Government

Phone, Web, Portable Device Payment Portals													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	500,000	250,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	250,000
Financing Plan													
Cash Capital	321,000	71,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	250,000
GO Bonds	175,000	175,000	0	0	0	0	0	0	0	0	0	0	0
Prior Year CIP/Close-Out	4,000	4,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	500,000	250,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	250,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Funding added to project for FY 2031.

PROJECT DESCRIPTION & JUSTIFICATION

This project provides funding to implement improvements to the City's online payment and account maintenance portal, including providing compatibility with mobile devices such as smart phones and tablets. In FY 2016, the City implemented the ability for taxpayers to make personal property (car tax) payments online. In FY 2017, the City implemented online real estate tax payments. In FY 2019 and FY 2020, the City enabled taxpayers to create and maintain online accounts that they may access with a username and password. This allowed taxpayers to view their billing and payment history, schedule payments, and receive electronic notifications.

These online payment portal enhancements are currently in a sustain and maintain status. This project has facilitated many enhancements that have enabled the City to provide online payment of taxes during the COVID-19 pandemic.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

Finance Department Work Plan

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

REAL ESTATE ACCOUNTS RECEIVABLE SYSTEM

DOCUMENT SUBSECTION: Financial Systems
MANAGING DEPARTMENT: Department of Finance

PROJECT LOCATION: Citywide
REPORTING AREA: Citywide
PROJECT CATEGORY: IT Plan
ESTIMATE USEFUL LIFE: 6 - 10 Years

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed Government

Real Estate Account Receivable System													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	2,010,000	1,635,000	0	0	0	0	175,000	0	0	0	200,000	0	375,000
Financing Plan													
Cash Capital	2,008,890	1,633,890	0	0	0	0	175,000	0	0	0	200,000	0	375,000
GO Bonds	1,110	1,110	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	2,010,000	1,635,000	0	0	0	0	175,000	0	0	0	200,000	0	375,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Due to FY 2021 funding reductions in response to the COVID-19 pandemic, funding for this project was reduced by \$175,000. This funding has been restored to the project in FY 2026.

PROJECT DESCRIPTION & JUSTIFICATION

This project supports the replacement of the City's Real Estate Accounts Receivable System (REARS), the system that generates the City's real estate tax bills. In FY 2017, ITS and Finance staff successfully migrated to a new system and retired the legacy system. The Finance Department first utilized the new system to successfully complete the tax year 2017 first-half and second-half real estate tax billings. The funding in the out years is for a major upgrade or anticipated replacement system.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

Finance Department Work Plan

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

REAL ESTATE ASSESSMENT SYSTEM (CAMA)

DOCUMENT SUBSECTION: Financial Systems
MANAGING DEPARTMENT: Department of Finance

PROJECT LOCATION: Citywide
REPORTING AREA: Citywide
PROJECT CATEGORY: IT Plan
ESTIMATE USEFUL LIFE: 0 - 5 Years

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed Government

Real Estate Assessment System (CAMA)													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	505,000	310,000	15,000	15,000	15,000	15,000	60,000	15,000	15,000	15,000	15,000	15,000	195,000
Financing Plan													
Cash Capital	505,000	310,000	15,000	15,000	15,000	15,000	60,000	15,000	15,000	15,000	15,000	15,000	195,000
Financing Plan Total	505,000	310,000	15,000	15,000	15,000	15,000	60,000	15,000	15,000	15,000	15,000	15,000	195,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Due to FY 2021 funding reductions in response to the COVID-19 pandemic, funding for this project was reduced by \$45,000. This funding has been restored to the project in FY 2026. Funding added to project for FY 2031.

PROJECT DESCRIPTION & JUSTIFICATION

This project funds improvements to the City's computer assisted mass appraisal (CAMA) system, which Finance staff uses to complete annual assessments of all real property in the City. The real estate accounts receivable system (REARS) relies on property valuations data from the CAMA system. Data from both systems are then used to generate the real estate tax bills. Prior year funding allowed for a critical system upgrade to the CAMA system. This upgrade retired outdated servers, moved all data to a modern database, and implemented a new browser-based user interface. The upgrade significantly extended the useful life of the CAMA system and eliminated the need for a full system replacement in the near term. The project is in a sustainment phase where additional capabilities and functionality will be added as needed, and the current focus is to keep the software aligned to the product lifecycle. The City will also strive to remain compliant with any required upgrades to ensure the application remains viable.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

GIS DEVELOPMENT

DOCUMENT SUBSECTION: Geographic Information Systems
 MANAGING DEPARTMENT: Information Technology Services
 Department

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed
 Government

PROJECT CATEGORY: IT Plan
 ESTIMATE USEFUL LIFE: Varies

GIS Development													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	3,049,500	2,524,500	70,000	30,000	70,000	30,000	85,000	40,000	70,000	30,000	70,000	30,000	525,000
Financing Plan													
Cash Capital	2,927,251	2,402,251	70,000	30,000	70,000	30,000	85,000	40,000	70,000	30,000	70,000	30,000	525,000
GO Bonds	22,249	22,249	0	0	0	0	0	0	0	0	0	0	0
Prior Year CIP/Close-Out	100,000	100,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	3,049,500	2,524,500	70,000	30,000	70,000	30,000	85,000	40,000	70,000	30,000	70,000	30,000	525,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Funding added to project for FY 2031.

PROJECT DESCRIPTION & JUSTIFICATION

The City's Geographic Information System (GIS) is the primary source of information on hundreds of layers of spatial data (streets, parks, parcels, population, etc.). This project funds resources to collect, distribute, access, and analyze this data. GIS data allows the City to better inform staff, decision makers and the public on many aspects of City operations. GIS provides this information through applications that address an extensive array of business needs. GIS capital funds are primarily used for GIS hardware and software and the biennial collection of base mapping data.

GIS data allows the City to better inform staff, decision makers and the public on many aspects of City operations. GIS provides this information through applications that address an extensive array of business needs. GIS data and technology is central to many of the City's most critical business applications including Computer Aided Dispatch, Asset Management, Real Estate Assessments, APEX (permitting) and Stormwater Utility.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

CONNECTIVITY INITIATIVES

DOCUMENT SUBSECTION: Network Services
 MANAGING DEPARTMENT: Information Technology Services
 Department

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed
 Government

PROJECT CATEGORY: IT Plan
 ESTIMATE USEFUL LIFE: N/A

Connectivity Initiatives													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	18,863,270	12,402,270	608,000	639,000	670,000	704,000	740,000	780,000	780,000	400,000	400,000	740,000	6,461,000
Financing Plan													
Cash Capital	5,214,000	0	0	0	670,000	704,000	740,000	780,000	780,000	400,000	400,000	740,000	5,214,000
Comcast Revenues	1,247,000	0	608,000	639,000	0	0	0	0	0	0	0	0	1,247,000
Private Capital Contributions	12,402,270	12,402,270	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	18,863,270	12,402,270	608,000	639,000	670,000	704,000	740,000	780,000	780,000	400,000	400,000	740,000	6,461,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Funding added to project for FY 2031.

PROJECT DESCRIPTION & JUSTIFICATION

This project reflects annual expenditures to Comcast for the monthly support of the City, Library and ACPS institutional network connections and is currently funded with Comcast Revenues. All remaining Comcast revenues have been programmed as funding for other eligible projects within the IT Plan.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

DATABASE INFRASTRUCTURE

DOCUMENT SUBSECTION: Network Services
 MANAGING DEPARTMENT: Information Technology Services
 Department

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed
 Government

PROJECT CATEGORY: IT Plan
 ESTIMATE USEFUL LIFE: Varies

Database Infrastructure													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	1,018,000	858,000	40,000	40,000	40,000	40,000	0	0	0	0	0	0	160,000
Financing Plan													
Cash Capital	905,629	745,629	40,000	40,000	40,000	40,000	0	0	0	0	0	0	160,000
GO Bonds	112,371	112,371	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	1,018,000	858,000	40,000	40,000	40,000	40,000	0	0	0	0	0	0	160,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

No changes from previous CIP.

PROJECT DESCRIPTION & JUSTIFICATION

This project provides for new and replacement database infrastructure hardware, software, licensing, upgrades, and tools. This project provides funding to periodically (every 3-5 years) refresh the database technologies and stay current with the manufacturer's lifecycle. Keeping the City's database infrastructure compliant with vendor releases ensures the long-term viability of critical City applications that are used to assess taxes, issue bills, make payments, manage permitting and land management processes and others. In addition to core database technologies, this project also provides for new web reporting services and improvements to existing web reporting portals. This project will occasionally fund the acquisition of new database hardware, infrastructure, and services when new needs arise from City staff. Additionally, this project is used to evaluate the latest database technologies and tools and provides for consulting services to properly maintain and enhance the City's database infrastructure. Funds in out years are for the upgrades to SQL database licensing required by Microsoft.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

ENTERPRISE CAMERA SYSTEM

DOCUMENT SUBSECTION: Network Services
 MANAGING DEPARTMENT: Information Technology Services
 Department

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 4: Safe & Resilient
 Community

PROJECT CATEGORY: IT Plan
 ESTIMATE USEFUL LIFE: TBD

Enterprise Camera System													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	50,000	50,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan													
Cash Capital	50,000	50,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	50,000	50,000	0	0	0	0	0	0	0	0	0	0	0
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

No changes from previous CIP.

PROJECT DESCRIPTION & JUSTIFICATION

This project is to provide funds for an enterprise-wide assessment of needs for physical security camera systems for City departments and facilities. Currently, the City has multiple stand-alone systems in place, which the City may want to migrate to a standardized camera solution that will enable efficiencies. Initial funds for this project will be used to pay for a study of current operations to identify the best path forward, taking into consideration technological innovations available in the marketplace. The study will identify the optimal future state, which will take advantage of innovations and “right-size” the City’s investments in this technology.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

ENTERPRISE COLLABORATION

DOCUMENT SUBSECTION: Network Services
 MANAGING DEPARTMENT: Information Technology Services
 Department

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed
 Government

PROJECT CATEGORY: IT Plan
 ESTIMATE USEFUL LIFE: 6 - 10 Years

Enterprise Collaboration													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	850,000	690,000	40,000	40,000	40,000	40,000	0	0	0	0	0	0	160,000
Financing Plan													
Cash Capital	850,000	690,000	40,000	40,000	40,000	40,000	0	0	0	0	0	0	160,000
Financing Plan Total	850,000	690,000	40,000	40,000	40,000	40,000	0	0	0	0	0	0	160,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

No changes from previous CIP.

PROJECT DESCRIPTION & JUSTIFICATION

This project funds the roll-out of new features for the City's enterprise content collaboration platform, as well as to adhere to the system manufacturer's lifecycle. This is a web-based collaboration platform that integrates with the City's email, desktop productivity tools, messaging, and cloud-based storage functions. The approved funding supports the cost of migration of personal file shares to cloud-based storage; the roll-out and training associated with mobility and "work-from-anywhere" initiatives, including native apps on mobile devices; the training and promotional costs of driving end-user adoption of cloud computing; and the implementation of content management features, such as retention policies, classification for search, and cloud security tools. Funds budgeted in this project are used for research and development activities to define a roadmap to deploy new cloud products and features. In FY 2022, funds in this project will be used to complete the City's migration to Microsoft's One Drive cloud storage, which will reduce on-premises storage requirements and will support staff capabilities to work remotely.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

ENTERPRISE DATA STORAGE INFRASTRUCTURE

DOCUMENT SUBSECTION: Network Services
 MANAGING DEPARTMENT: Information Technology Services
 Department

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed
 Government

PROJECT CATEGORY: IT Plan
 ESTIMATE USEFUL LIFE: Varies

Enterprise Data Storage Infrastructure													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	5,380,435	3,930,435	400,000	350,000	350,000	350,000	0	0	0	0	0	0	1,450,000
Financing Plan													
Cash Capital	3,566,000	2,116,000	400,000	350,000	350,000	350,000	0	0	0	0	0	0	1,450,000
Code Fund Balance	150,000	150,000	0	0	0	0	0	0	0	0	0	0	0
Private Capital Contributions	1,664,435	1,664,435	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	5,380,435	3,930,435	400,000	350,000	350,000	350,000	0	0	0	0	0	0	1,450,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

No changes from previous CIP.

PROJECT DESCRIPTION & JUSTIFICATION

As the City continues to "go green" and digitize documents across the enterprise, data storage requirements continue to increase which requires additional storage capacity and proper hardware/software to perform data backups. This project provides funding to maintain and upgrade the backend data storage required for the virtual infrastructure and the enterprise backups. This project includes Storage Area Network (SAN) hardware, software licensing, and enterprise backup hardware. The SANs that are deployed throughout the enterprise provide improved disk utilization and data management. This project provides funding to perform SAN upgrades to include adding needed storage capacity while maintaining optimal performance. Staff will continue to research next generation storage technology.

In FY 2020, funds from this project were used to expand and upgrade the City's storage capacity to accommodate growing digital storage needs. Additionally, the enterprise backup systems were replaced with a modern, feature rich platform. In FY 2021, staff continues to work on migrating to the new Storage Area Network, which will ensure the City remains compliant with regulatory requirements around the retention of City data.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

ENTERPRISE SERVICE CATALOG

DOCUMENT SUBSECTION: Network Services
 MANAGING DEPARTMENT: Information Technology Services
 Department

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed
 Government

PROJECT CATEGORY: IT Plan
 ESTIMATE USEFUL LIFE: 6 - 10 Years

Enterprise Service Catalog													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	380,000	220,000	40,000	40,000	40,000	40,000	0	0	0	0	0	0	160,000
Financing Plan													
Cash Capital	380,000	220,000	40,000	40,000	40,000	40,000	0	0	0	0	0	0	160,000
Financing Plan Total	380,000	220,000	40,000	40,000	40,000	40,000	0	0	0	0	0	0	160,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Funding in the amount of \$160,000 was removed from this project in FY 2022, based on current project needs.

PROJECT DESCRIPTION & JUSTIFICATION

Funding for this project is used to support the technical service desk operations which includes incident, request, and change management directly related to technical support services for City staff. In FY 2019, ITS implemented a system that includes electronic workflows and automated email notifications. Overall IT efficiency is gained by leveraging this system to automate repetitive tasks and it serves as a central repository for IT service catalog items. Planned funding will be used to implement features and capabilities which includes asset and inventory management to best support and safeguard overall device management.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

INFORMATION TECHNOLOGY EQUIPMENT REPLACEMENT

DOCUMENT SUBSECTION: Network Services
 MANAGING DEPARTMENT: Information Technology Services
 Department

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed
 Government

PROJECT CATEGORY: IT Plan
 ESTIMATE USEFUL LIFE: 6 - 10 Years

Information Technology Equipment Replacement													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	13,133,740	3,852,740	922,000	996,000	1,001,000	1,006,000	1,011,000	1,017,000	822,000	829,000	835,000	842,000	9,281,000
Financing Plan													
Cash Capital	12,833,740	3,552,740	922,000	996,000	1,001,000	1,006,000	1,011,000	1,017,000	822,000	829,000	835,000	842,000	9,281,000
Private Capital Contributions	300,000	300,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	13,133,740	3,852,740	922,000	996,000	1,001,000	1,006,000	1,011,000	1,017,000	822,000	829,000	835,000	842,000	9,281,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Funding for one support engineer was moved from the central ITS Staffing project to this project. Project scope funding was increased by \$80,000 in FY 2022 and \$150,000 in FY 2023 to ensure adequate technology equipment support for teleworking during the COVID-19 pandemic. Funding added to project for FY 2031.

PROJECT DESCRIPTION & JUSTIFICATION

The City needs hardware that meets modern technology standards and application requirements. Funds in this project are used to procure new City platform technologies (laptops, desktops, and related components or companion products). This project also provides for the labor costs of deploying the new computers at offices throughout the City. The IT Equipment Replacement project ensures that City staff have appropriate platform technologies and resources necessary to perform core job functions, and that the City's physical IT equipment is replaced on an appropriate schedule to minimize downtime and requests for service.

The project's goal is to provide appropriate hardware and companion products to support the City's workforce in their day-to-day job functions. Funding levels will ensure City staff are provided appropriate computing equipment to support remote work during the City's response to COVID, with the goal of transitioning the City's computer environment from desktops to laptops. Funding largely is to replace equipment that will better enable telework "work-from-home" support on an ongoing basis and improve the overall digital work experience.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

INFORMATION TECHNOLOGY LUMP SUM FUNDING

DOCUMENT SUBSECTION: Network Services
 MANAGING DEPARTMENT: Information Technology Services
 Department

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed
 Government

PROJECT CATEGORY: IT Plan
 ESTIMATE USEFUL LIFE: Varies

Information Technology Lump Sum Funding													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	29,200,000	0	0	1,200,000	3,200,000	3,200,000	3,200,000	3,200,000	3,400,000	3,400,000	3,400,000	5,000,000	29,200,000
Financing Plan													
Cash Capital	29,200,000	0	0	1,200,000	3,200,000	3,200,000	3,200,000	3,200,000	3,400,000	3,400,000	3,400,000	5,000,000	29,200,000
Financing Plan Total	29,200,000	0	0	1,200,000	3,200,000	3,200,000	3,200,000	3,200,000	3,400,000	3,400,000	3,400,000	5,000,000	29,200,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Funding eliminated for FY 2022, and allocated to now-determined projects in the IT Plan. Funding added to project for FY 2031.

PROJECT DESCRIPTION & JUSTIFICATION

This project reserves IT project future funding in FY 2023 – FY 2031 for use on to-be-determined information technology initiatives.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

IT ENTERPRISE MANAGEMENT SYSTEM

DOCUMENT SUBSECTION: Network Services
 MANAGING DEPARTMENT: Information Technology Services
 Department

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed
 Government

PROJECT CATEGORY: IT Plan
 ESTIMATE USEFUL LIFE: Varies

IT Enterprise Management System													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	510,000	510,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan													
Cash Capital	460,000	460,000	0	0	0	0	0	0	0	0	0	0	0
Comcast Revenues	50,000	50,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	510,000	510,000	0	0	0	0	0	0	0	0	0	0	0
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

No changes from previous CIP.

PROJECT DESCRIPTION & JUSTIFICATION

The IT Enterprise Management System project continues to support the proper lifecycle management of enterprise software installed on information technology equipment. This project provides funding to automate operating system deployment, software deployment, and automated software patching services. ITS deployed this tool to streamline and standardize the deployment of desktop and server software packages. This allows the City to efficiently stay current with the software manufacturer's lifecycle and/or address potential vulnerabilities.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

LAN DEVELOPMENT

DOCUMENT SUBSECTION: Network Services
 MANAGING DEPARTMENT: Information Technology Services
 Department

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed
 Government

PROJECT CATEGORY: IT Plan
 ESTIMATE USEFUL LIFE: Varies

LAN Development													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	734,000	484,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	250,000
Financing Plan													
Cash Capital	570,661	320,661	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	250,000
GO Bond Interest Earnings	30,679	30,679	0	0	0	0	0	0	0	0	0	0	0
GO Bonds	67,660	67,660	0	0	0	0	0	0	0	0	0	0	0
Private Capital Contributions	65,000	65,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	734,000	484,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	250,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Funding added to project for FY 2031.

PROJECT DESCRIPTION & JUSTIFICATION

This project maintains or upgrades the local area network (LAN) infrastructure in City government buildings, including: data cabling, demarcation boxes, racks, and cabinets. This project ensures that current data runs and new data connections associated with office moves and renovations will consistently provide staff sufficient data speeds, based on the latest network technologies deployed in the City. This project also funds upgrades to the physical spaces (network closets) where the LAN infrastructure resides to ensure that they are adequately cooled, lighted, and secured. The condition of the physical space is critical to the optimal performance of network equipment connecting to the City's I-Net. On an on-going basis, ITS ensures the quality of the local area network is consistent with I-Net by continuously performing required cable drop maintenance, installation of new or replacement network drops, and other related equipment replacements or upgrades.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

LAN/WAN INFRASTRUCTURE

DOCUMENT SUBSECTION: Network Services
MANAGING DEPARTMENT: Information Technology Services
Department

PROJECT LOCATION: Citywide
REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed
Government

PROJECT CATEGORY: IT Plan
ESTIMATE USEFUL LIFE: Varies

LAN/WAN Infrastructure													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	17,908,440	8,174,140	1,438,700	952,400	466,500	480,900	1,732,700	913,900	922,800	931,800	941,800	952,800	9,734,300
Financing Plan													
Cash Capital	11,369,313	2,388,013	1,046,700	591,400	466,500	480,900	1,732,700	913,900	922,800	931,800	941,800	952,800	8,981,300
Comcast Revenues	1,724,000	971,000	392,000	361,000	0	0	0	0	0	0	0	0	753,000
GO Bond Interest Earnings	13,816	13,816	0	0	0	0	0	0	0	0	0	0	0
GO Bonds	763,311	763,311	0	0	0	0	0	0	0	0	0	0	0
Private Capital Contributions	4,038,000	4,038,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	17,908,440	8,174,140	1,438,700	952,400	466,500	480,900	1,732,700	913,900	922,800	931,800	941,800	952,800	9,734,300
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Funding for added to project for a capitalized staff position that will directly support LAN/WAN Infrastructure project. Funding added to project for FY 2031.

PROJECT DESCRIPTION & JUSTIFICATION

This project enables the City to deliver scalable wired and wireless access to data, voice, and video communications on the City's Institutional Network (I-Net). This project funds the replacement and acquisition of networking equipment which includes core switches, edge switches, firewalls, routers, gigabit modules, fiber optic cable, various networking monitoring tools, packet filtering/ traffic shaping devices, and professional services. Consulting services are used when making network modifications, which are required for integration of products or services.

In FY 2020, Internet routers and firewalls were upgraded to improve stability, performance, and security of the network.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

MUNICIPAL FIBER

DOCUMENT SUBSECTION: Network Services
MANAGING DEPARTMENT: Information Technology Services Department

PROJECT LOCATION: Citywide
REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed Government

PROJECT CATEGORY: IT Plan
ESTIMATE USEFUL LIFE: 30+ Years

Municipal Fiber													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	20,727,000	7,610,000	11,353,000	160,000	168,000	176,000	185,000	195,000	204,000	215,000	225,000	236,000	13,117,000
Financing Plan													
Cash Capital	9,901,427	6,784,427	1,353,000	160,000	168,000	176,000	185,000	195,000	204,000	215,000	225,000	236,000	3,117,000
GO Bonds	10,825,573	825,573	10,000,000	0	0	0	0	0	0	0	0	0	10,000,000
Financing Plan Total	20,727,000	7,610,000	11,353,000	160,000	168,000	176,000	185,000	195,000	204,000	215,000	225,000	236,000	13,117,000
Operating Impact	6,644,000	0	0	0	830,500	830,500	830,500	830,500	830,500	830,500	830,500	830,500	6,644,000

CHANGES FROM PRIOR YEAR CIP

In the FY 2021 – 2030 CIP Approved Budget, funding for this project was reduced by \$5 million in response to the COVID-19 pandemic, and due to the projected timeline at the time the FY 2021 budget was approved. The funding for this project included in the FY 2022 – FY 2031 Proposed Budget was based on bid information received in January 2021. The amount included this Approved Budget, which is \$3.2 million less, is based on actual contract award. Previously appropriated funds, along with planned FY 2022 funding will provide approximately \$19.0 million for implementation of the project, and additional funding for a dedicated staff member for managing the project. Funding appropriation is entirely budgeted in FY 2022, based on project's procurement schedule. However, project timeline and cash flow needs likely mean that actual borrowing for this project can be spread from FY 2022 through FY 2024.

PROJECT DESCRIPTION & JUSTIFICATION

The City currently leases a fiber optic network from Comcast that provides an institutional network (I-Net) connection to all City government facilities including Libraries, City government offices, and ACPS educational facilities. This project funds the design and build-out of a City-owned municipal fiber network which will replace the Comcast network with approximately 40 miles of fiber optic and will provide greater and more uniformly available wide area network services to meet current and future projected City service levels. Mandatory, critical City communications are supported over the I-Net: the City's VoIP telephone system, public safety dispatch systems, data network services, Internet, and mission-critical system applications. The City is seeking a technically superior alternative, while providing potential new revenue streams through the leasing of excess capacity.

After extensive research and evaluation of technological and market conditions, the City has determined that the construction and operation of its own fiber optic network will lead to increased service capabilities, as well as give the City potential revenue options with private entity leasing agreements of the second conduit that is being included in the construction. Allowing the leasing of the second conduit by the private sector would enable the private service providers to provide high speed internet connections to City businesses and residents and represents an investment in future long-term positive economic development.

Project objectives include better management of long-term costs, reduction of the risk of pricing volatility, enhancement of City services and support of economic development. Alternatives to this approach are limited and wireless solutions are not sufficient. Approved funds were used to contract a Municipal Fiber Engineer and to secure professional services to design and implement the Municipal Fiber project.

There are various project dependencies as well as opportunities that could impact the overall design and costs of the municipal fiber network. Factors such as 5G wireless, public-private partnerships, smart mobility and construction site variables are all considerations that could increase costs or alter the original design.

Funds budgeted in FY 2022 will support the construction of the fiber network, expected to be completed in four years from contract award date, which was in early 2021. Outyear funding will support the cost of owning and sustaining the municipal fiber network as well as its related components. The current funding and construction specializations will support a two conduit system. One conduit for the City's I-Net functions and one empty conduit for use by the private sector to provide community broad band or other beneficial services.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

Maintenance and monitoring of a City-owned and operating I-Net will require additional software systems and staffing.

NETWORK SECURITY

DOCUMENT SUBSECTION: Network Services
 MANAGING DEPARTMENT: Information Technology Services
 Department

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed
 Government

PROJECT CATEGORY: IT Plan
 ESTIMATE USEFUL LIFE: Varies

Network Security													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	8,630,000	3,865,000	510,000	500,000	605,000	400,000	400,000	800,000	350,000	350,000	350,000	500,000	4,765,000
Financing Plan													
Cash Capital	7,102,014	2,337,014	510,000	500,000	605,000	400,000	400,000	800,000	350,000	350,000	350,000	500,000	4,765,000
Comcast Revenues	590,000	590,000	0	0	0	0	0	0	0	0	0	0	0
GO Bond Interest Earnings	80,000	80,000	0	0	0	0	0	0	0	0	0	0	0
GO Bonds	57,986	57,986	0	0	0	0	0	0	0	0	0	0	0
Private Capital Contributions	800,000	800,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	8,630,000	3,865,000	510,000	500,000	605,000	400,000	400,000	800,000	350,000	350,000	350,000	500,000	4,765,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Funding increased in the amount of \$160,000 in FY 2022 to meet increased security needs while a heightened number of staff telework during the COVID-19 public health emergency. Funding added to project for FY 2031.

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of this project is to fund the technical implementation of security technologies to protect data confidentiality, integrity, and availability of the City's Infrastructure. The City's information security program's function is to proactively identify, assess and implement solutions to address the City's IT vulnerabilities. Evaluating the role of new security technologies and methodologies is a continual process that requires capital investment. Funds programmed in the out years of this plan will be used to procure necessary tools, software, and services to better combat threats and improve the City's security posture. Funding in this project provides for continued IT and cyber security system protections, enhancements, replacements and upgrades, service consultation expenses, and future security product and service acquisitions to assist with ensuring the confidentiality, integrity, and availability of City systems and information.

The Network Security project funds initiatives that reduce the City's risk to cyber-attacks. The average ransomware incident takes an organization offline for at least a week. A major security incident could potentially be very costly to the City, cause interruptions to City operations and damage the City's reputation. Investing pre-emptively in security measures reduces the risk of an incident occurring. IT security continues to be a fundamental component of the City's enterprise architecture and strategy. In FY 2021, this project funded improvements to security for remote workers, as this was critical in supporting City operations during the pandemic.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

NETWORK SERVER INFRASTRUCTURE

DOCUMENT SUBSECTION: Network Services
 MANAGING DEPARTMENT: Information Technology Services
 Department

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed
 Government

PROJECT CATEGORY: IT Plan
 ESTIMATE USEFUL LIFE: Varies

Network Server Infrastructure													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	9,321,143	8,421,143	300,000	300,000	300,000	0	0	0	0	0	0	0	900,000
Financing Plan													
Cash Capital	6,831,976	5,931,976	300,000	300,000	300,000	0	0	0	0	0	0	0	900,000
GO Bonds	717,042	717,042	0	0	0	0	0	0	0	0	0	0	0
Private Capital Contributions	1,772,125	1,772,125	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	9,321,143	8,421,143	300,000	300,000	300,000	0	0	0	0	0	0	0	900,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

No changes from previous CIP.

PROJECT DESCRIPTION & JUSTIFICATION

This project provides for the phased replacement of the hardware and software required to operate the City's network server environment in a secure, high performing, and reliable manner. This project provides funds for procuring necessary hardware, network software upgrades, client access licenses, virtualization licenses, and network operating system licenses. Typical equipment purchases include chassis, and chassis components, server blades, and memory.

In FY 2020, staff began efforts to update various components of the server infrastructure, including domain controllers, the virtual computing environment, and the replacement and upgrade of high-performance hardware (USC blades). Many of these efforts were completed in FY 2021. These improvements enable City staff to have seamless computing experience which ensures application access is delivered optimally.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

REMOTE ACCESS

DOCUMENT SUBSECTION: Network Services
 MANAGING DEPARTMENT: Information Technology Services
 Department

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed
 Government

PROJECT CATEGORY: IT Plan
 ESTIMATE USEFUL LIFE: Varies

Remote Access													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	1,343,000	998,000	170,000	175,000	0	0	0	0	0	0	0	0	345,000
Financing Plan													
Cash Capital	1,343,000	998,000	170,000	175,000	0	0	0	0	0	0	0	0	345,000
Financing Plan Total	1,343,000	998,000	170,000	175,000	0	0	0	0	0	0	0	0	345,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

No changes from previous CIP.

PROJECT DESCRIPTION & JUSTIFICATION

This project supports employee teleworking initiatives for City staff. Funding is provided to allow secure remote access for employees who telework and employees who work at remote locations. Funds programmed in the out years of this plan will be used to procure new licensing, assess applications compatibility, and procure related hardware devices to sustain the remote access infrastructure. In recent fiscal years, various improvements have been made including software upgrades and equipment replacement to enhance the remote worker experience as well as improve security.

In FY 2020, funds from this project were used to procure additional licenses to enable more City staff to work remotely, due to the pandemic. In FY 2021, staff are working to complete the necessary server upgrades to ensure this environment remains in a good state of repair.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

TIME & ATTENDANCE SYSTEM UPGRADE

DOCUMENT SUBSECTION: Network Services
 MANAGING DEPARTMENT: Finance Department

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide
 PROJECT CATEGORY: IT Plan
 ESTIMATE USEFUL LIFE: Varies

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed Government

Time & Attendance System Upgrade													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	165,000	70,000	0	0	40,000	0	0	0	0	55,000	0	0	95,000
Financing Plan													
Cash Capital	165,000	70,000	0	0	40,000	0	0	0	0	55,000	0	0	95,000
Financing Plan Total	165,000	70,000	0	0	40,000	0	0	0	0	55,000	0	0	95,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Funding originally deferred to FY 2022 due to the COVID-19 public health emergency (\$80,000) was removed from the project.

PROJECT DESCRIPTION & JUSTIFICATION

The funding for this project has been programmed to ensure the enterprise time and attendance application remains viable and is compatible with the City's overall technology environment. Continued analysis will be performed to ensure the system is compatible with the Enterprise Resource Planning application. The current application has been in use for 10 plus years.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

UPGRADE WORK STATION OPERATING SYSTEMS

DOCUMENT SUBSECTION: Network Services
 MANAGING DEPARTMENT: Information Technology Services
 Department

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed
 Government

PROJECT CATEGORY: IT Plan
 ESTIMATE USEFUL LIFE: Varies

Upgrade Work Station Operating Systems													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	5,445,950	3,463,950	233,000	386,000	290,000	395,000	100,000	105,000	110,000	115,000	121,000	127,000	1,982,000
Financing Plan													
Cash Capital	4,925,671	2,943,671	233,000	386,000	290,000	395,000	100,000	105,000	110,000	115,000	121,000	127,000	1,982,000
GO Bond Interest Earnings	120,000	120,000	0	0	0	0	0	0	0	0	0	0	0
GO Bonds	400,279	400,279	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	5,445,950	3,463,950	233,000	386,000	290,000	395,000	100,000	105,000	110,000	115,000	121,000	127,000	1,982,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Funding for one support engineer was moved from the central ITS Staffing project to this project.

PROJECT DESCRIPTION & JUSTIFICATION

This project provides funds to upgrade the Windows operating system, maintain a current Microsoft operating system service plan (N-1), and provide an up-to-date Microsoft productivity suite on City workstations, as well as to fund required improvements to computer laptops and desktops, peripherals, or other related hardware components as necessary. This project also provides funds for the labor costs of installing the new operating systems and related software components. Additionally, funding is used to test the viability of newer operating systems, mobile devices (e.g. tablets) and laptop technologies with current City applications and hardware. Testing workstations prior to enterprise implementation is necessary to help ensure efficient roll-out of new technology and minimizes disruptions related to application or hardware compatibility problems.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

VOICE OVER INTERNET PROTOCOL (VoIP)

DOCUMENT SUBSECTION: Network Services
 MANAGING DEPARTMENT: Information Technology Services
 Department

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed
 Government

PROJECT CATEGORY: IT Plan
 ESTIMATE USEFUL LIFE: Varies

Voice Over Internet Protocol (VoIP)													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	6,007,173	5,592,173	155,000	120,000	80,000	60,000	0	0	0	0	0	0	415,000
Financing Plan													
Cash Capital	2,288,173	1,873,173	155,000	120,000	80,000	60,000	0	0	0	0	0	0	415,000
GO Bonds	621,000	621,000	0	0	0	0	0	0	0	0	0	0	0
Private Capital Contributions	3,098,000	3,098,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	6,007,173	5,592,173	155,000	120,000	80,000	60,000	0	0	0	0	0	0	415,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

No changes from previous CIP.

PROJECT DESCRIPTION & JUSTIFICATION

This project provides funds for the continuous improvements to Voice over Internet Protocol (VoIP), the City's enterprise telephony systems and services. Project funding is used for the City's telecommunications infrastructure, including software, servers, switches, and handsets. Routine hardware replacement and software upgrades need to be performed to maintain a viable and reliable VoIP infrastructure. ITS has been refining departmental VoIP configurations by deploying new features including voicemail to email and departmental call center reporting enhancements. This enables the City to leverage the next generation capabilities and features to integrate with other City systems and applications.

Funds in FY 2020 were used to initiate redundancy improvements to telephony services, enhancing 911 call center reporting location due to regulatory requirements, and enhancing emergency 911 integrations to provide additional redundancy. All of these efforts are targeted for completion in FY 2021. Additionally, in FY 2021, enhancements to remote worker telephony services and marketplace offerings are being researched with current VoIP services.

Funds in FY 2022 and FY 2023 will be used to replace end-of-life hardware, software, and desk handsets and upgrade to the next generation unified voice communication platform to meet the City's future business requirements.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

COMPUTERIZED MAINTENANCE MANAGEMENT SYSTEM (CMMS)

DOCUMENT SUBSECTION:	Other System Development Projects	PROJECT LOCATION:	Citywide
MANAGING DEPARTMENT:	Department of General Services	REPORTING AREA:	Citywide
PRIMARY STRATEGIC THEME:	Theme 3: Well-Managed Government	PROJECT CATEGORY:	IT Plan
		ESTIMATE USEFUL LIFE:	5- 10 Years

Computerized Maintenance Management System (CMMS)													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	484,000	0	325,000	159,000	0	0	0	0	0	0	0	0	484,000
Financing Plan													
Cash Capital	484,000	0	325,000	159,000	0	0	0	0	0	0	0	0	484,000
Financing Plan Total	484,000	0	325,000	159,000	0	0	0	0	0	0	0	0	484,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Funding amounts added for FY 2022 (\$325,000) and FY 2023 (\$159,000). Project name changed from General Services Facilities Management System.

PROJECT DESCRIPTION & JUSTIFICATION

In FY 2020 – 2021 a Computer Maintenance Management System (CMMS) study was completed. Results from the study recommend a new, jointly procured CMMS to be implemented for the use by the Department of General Services (DGS), Alexandria Fire Department (AFD), and Alexandria City Schools (ACPS). This infrastructure is required to support the mission and functions for facilities maintenance divisions in these agencies.

This project supports the Ad-Hoc City Schools recommendation for these three agencies to establish a common, cost -effective approach to track and manage preventive maintenance needs.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

COUNCIL CHAMBERS TECHNOLOGY UPGRADE

DOCUMENT SUBSECTION:	Other System Development Projects	PROJECT LOCATION:	301 King St, Council Chamber, Alexandria VA 22314
MANAGING DEPARTMENT:	City Clerk's Office	REPORTING AREA:	Citywide
PRIMARY STRATEGIC THEME:	Theme 3: Well-Managed Government	PROJECT CATEGORY:	IT Plan
		ESTIMATE USEFUL LIFE:	0 - 5 Years

Council Chamber Technology Upgrade													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	1,306,000	350,000	0	440,000	0	0	66,000	0	0	0	0	450,000	956,000
Financing Plan													
Cash Capital	956,000	0	0	440,000	0	0	66,000	0	0	0	0	450,000	956,000
Private Capital Contributions	350,000	350,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	1,306,000	350,000	0	440,000	0	0	66,000	0	0	0	0	450,000	956,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

No changes from previous CIP.

PROJECT DESCRIPTION & JUSTIFICATION

City Council Chambers is where elected and appointed officials, City staff, and the public meet to conduct official City business. Council Chambers hosts regular and special City Council meetings, City Council informational meetings, City Council Committee meetings, Planning Commission meetings, Boards of Architectural Review meetings, and other City meetings.

Planned funding in FY 2018 and FY 2019 was used to define the requirements, obtain cost proposals, and contract with vendor resources to perform the necessary audio visual improvements. The City Council Chambers was installed with modern, functional equipment that was suited to the task and environment. The equipment will have to be periodically replaced. In addition, enhancements may be required to allow for greater virtual capabilities. The replacement lifecycle for the equipment and the funding will need to occur in the out years of the 10-year plan.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating budget impacts identified at this time.

DCHS INTEGRATED CLIENT INFORMATION SYSTEM

DOCUMENT SUBSECTION: Other System Development Projects

PROJECT LOCATION: Citywide

MANAGING DEPARTMENT: Information Technology Services Department

REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 9: Healthy Residents

PROJECT CATEGORY: IT Plan
ESTIMATE USEFUL LIFE: Varies

DCHS Integrated Client Information System													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	300,000	0	300,000	TBD	TBD	0	0	0	0	0	0	0	300,000
Financing Plan													
Cash Capital	300,000	0	300,000	TBD	TBD	0	0	0	0	0	0	0	300,000
Financing Plan Total	300,000	0	300,000	TBD	TBD	0	0	0	0	0	0	0	300,000

CHANGES FROM PRIOR YEAR CIP

New project added to FY 2022 – FY 2031 CIP.

PROJECT DESCRIPTION & JUSTIFICATION

The Alexandria Department of Community and Human Services is a unified agency focused on achieving the safety, well-being, and self-sufficiency of the residents of Alexandria. The array of services that the department delivers span the life cycle from early childhood to older adulthood. The types of services include mental health, public benefits, substance use disorder, residential, developmental disabilities, homelessness prevention, child and adult protection, early intervention, youth, and workforce development services. On average, the department will serve more than 24,000 residents each year.

The department is unique in that it has responsibility for both Behavioral Health and Social Services, along with other areas. Having most services under one roof provides important opportunities to respond more comprehensively to the complex needs of individuals and families. The department has several strong models of collaboration, care coordination and information sharing among the services delivered. These models have largely been driven by the complex needs of individuals and families facing mental health, housing, financial, and family safety crises. These models are extremely valuable and demonstrate the effectiveness of integrated information and service delivery.

Based on these approaches and the national models (Allegheny County, PA; San Diego, CA; Virginia Beach) of integrated service delivery, a key element of this approach is the systemic access and integration of information. This will make it possible to improve the client experience, improve accuracy, expedite eligibility determination, and ultimately improve outcomes. On a macro systems level, the integration of information will make it possible to identify trends, make projections, and target resources. As integrated data increasingly provide the raw materials for evaluation, research, and risk modeling, it is critical that we examine the ways in which data reflect systemic racial inequities in the development and administration of policies and programs. Any approach that is adopted must reflect a built-in racial equity analysis process.

CIP funding will be used to engage a vendor/consultant through an RFI process. Work would include a review of current business processes, systems in use, survey of staff and clients, model review, identification of similar system in other localities, broad cost estimating and final report and recommendations. The timing and cost to implement the system will need to be determined after the completion of the review.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

ENTERPRISE MAINTENANCE MGMT SYSTEM

DOCUMENT SUBSECTION:	Other System Development Projects	PROJECT LOCATION:	Citywide
MANAGING DEPARTMENT:	Department of Transportation and Environmental Services	REPORTING AREA:	Citywide
PRIMARY STRATEGIC THEME:	Theme 3: Well-Managed Government	PROJECT CATEGORY:	IT Plan
		ESTIMATE USEFUL LIFE:	6 - 10 Years

Enterprise Maintenance Mgmt System													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	1,310,000	389,400	40,000	40,000	40,000	40,000	380,600	0	0	0	0	380,000	920,600
Financing Plan													
Cash Capital	1,160,000	239,400	40,000	40,000	40,000	40,000	380,600	0	0	0	0	380,000	920,600
GO Bonds	150,000	150,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	1,310,000	389,400	40,000	40,000	40,000	40,000	380,600	0	0	0	0	380,000	920,600
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

The Approved FY 2021 – FY 2030 CIP, in response to the COVID-19 public health emergency, deferred FY 2021 funding to FY 2022 (\$20,000) and reduced previously appropriated project balances (\$360,000). The FY 2022 – FY 2031 CIP restores this funding in FY 2026, based on current project timeline and needs.

PROJECT DESCRIPTION & JUSTIFICATION

This project provides for the continual improvement of the City's enterprise maintenance management system (EMMS). This system is a service request/work order management system used by departments in the day-to-day activities associated with maintaining assets and infrastructure. Improvements to this system will provide full lifecycle management of City-owned assets. The EMMS integrates with the City's GIS system, serving as an asset inventory with location details and it is the foundational system behind the City's current service request system, Alex311.

This project is in a sustain and maintain mode, where additional capabilities and functionality will be added as needed, but the focus is to keep the software aligned to the product lifecycle.

One additional capability currently being explored is an inventory management features that would allow for tighter control over supplies and materials. Staff are currently developing system requirements and will make a recommendation for appropriate next steps.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

FLEET MANAGEMENT SYSTEM

DOCUMENT SUBSECTION: Other System Development Projects

PROJECT LOCATION: Citywide

MANAGING DEPARTMENT: Department of Transportation and Environmental Services

REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed Government

PROJECT CATEGORY: IT Plan
ESTIMATE USEFUL LIFE: 6-10 Years

Fleet Management System													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	140,000	140,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan													
Cash Capital	140,000	140,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	140,000	140,000	0	0	0	0	0	0	0	0	0	0	0
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

No changes from previous CIP.

PROJECT DESCRIPTION & JUSTIFICATION

This project provides a technology refresh of the City's fleet management software to a next generation version of the software which is browser-based. This upgrade is underway and is planned to be completed in FY 2022. The newer web version of the software will make it much easier to deploy and maintain. It is also compatible with tablets and handheld devices, where the older version requires a desktop computer. It is anticipated that having smaller devices available in a garage will make the repair environment more streamlined and allow for improved work order process flow. Efficiencies available in the newer version of software including web reports, handhelds, barcode scanning, and inventory management can only be achieved with the upgrade. Thus, the current version of software that the City is using is approaching its end-of-life.

This effort will be similar to a new system implementation, because it is essentially a different set of software. The scope will include new licensing, data migration, reports migration, new feature setup and configuration, testing, training, and go-live support. Funding in the out years for this project will be used to sustain and maintain the system properly.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

FOIA SYSTEM REPLACEMENT

DOCUMENT SUBSECTION: Other System Development Projects
 MANAGING DEPARTMENT: Office of the City Attorney
 PRIMARY STRATEGIC THEME: Theme 4: Safe & Resilient Community

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide
 PROJECT CATEGORY: IT Plan
 ESTIMATE USEFUL LIFE: 0 - 5 Years

FOIA System Replacement													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	115,000	15,000	100,000	0	0	0	0	0	0	0	0	0	100,000
Financing Plan													
Cash Capital	115,000	15,000	100,000	0	0	0	0	0	0	0	0	0	100,000
Financing Plan Total	115,000	15,000	100,000	0	0	0	0	0	0	0	0	0	100,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Funding in the amount of \$100,000 added to FY 2022 to investigate tools to archive staff text messaging communications.

PROJECT DESCRIPTION & JUSTIFICATION

The City Attorney's Office receives and processes Freedom of Information Act (FOIA) records requests made to the City. Under the Virginia Freedom of Information Act, the City has five working days to provide responses to requestors. In order to appropriately handle records requests, the office uses a system that tracks requests and communicates with staff when requests have been assigned. The system is used by the City Attorney's Office and designated department contacts to track the status of the requests, and any responses made to requestors.

The City Attorney's Office has gone through a discovery process of the needs of the City's FOIA system, and after a review they have decided to upgrade the current FOIA tracking solution. The upgraded product will have additional features and functionality that will meet the current business needs of the City Attorney's Office and its customers. These enhancements will help streamline the response process; thus, making the process more efficient by decreasing the response time to customers and allowing City staff to work more efficiently.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

HIPAA & RELATED HEALTH INFORMATION TECHNOLOGIES

DOCUMENT SUBSECTION: Other System Development Projects

PROJECT LOCATION: Citywide

MANAGING DEPARTMENT: Department of Community and Human Services

REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 9: Healthy Residents

PROJECT CATEGORY: IT Plan
ESTIMATE USEFUL LIFE: Varies

HIPAA & Related Health Information Technologies													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	903,000	653,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	250,000
Financing Plan													
Cash Capital	800,000	550,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	250,000
Private Capital Contributions	75,000	75,000	0	0	0	0	0	0	0	0	0	0	0
Prior Year CIP/Close-Out	28,000	28,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	903,000	653,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	250,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Funding added to project for FY 2031.

PROJECT DESCRIPTION & JUSTIFICATION

The Department of Community and Human Services adheres to the Health Insurance Portability and Accountability Act (HIPAA) and its established standards and safeguards that protect the confidentiality, integrity, and availability of protected electronic health information. HIPAA regulations impact all the department's functions, processes and systems that store, generate, or report on health information. Prior year funding was used towards security audits, a HIPAA secured document management solution, secure efax and a HIPAA secure printing and scanning solution for the Department.

This project funds a continued self-assessment of current business functions related to Health Information Technology infrastructure and use, as well as provides funding for HIPAA-mandated regulations and compliance. Planned funding ensures all processes associated with health information technology are continually monitored and improved upon in efforts to address required updates, data security requirements and hardware needs.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

IMPOUND LOT SYSTEM REPLACEMENT

DOCUMENT SUBSECTION: Other System Development Projects

PROJECT LOCATION: Citywide

MANAGING DEPARTMENT: Department of Transportation and Environmental Services

REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed Government

PROJECT CATEGORY: IT Plan
ESTIMATE USEFUL LIFE: 6- 10 Years

Impound Lot System Replacement													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	200,000	50,000	150,000	0	0	0	0	0	0	0	0	0	150,000
Financing Plan													
Cash Capital	200,000	50,000	150,000	0	0	0	0	0	0	0	0	0	150,000
Financing Plan Total	200,000	50,000	150,000	0	0	0	0	0	0	0	0	0	150,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

No changes from previous CIP.

PROJECT DESCRIPTION & JUSTIFICATION

This project supports the replacement of the City's impound/ towing management software system. The current system has been in use for more than 15 years, and it was custom developed in-house using a legacy programming language which is now end-of-life. The business processes associated with running an impound lot require an automated electronic software system. The current system has become increasingly difficult to maintain due to legacy technology. The new system will have more automation and it will manage the entire impound process. It will track a vehicle from impound through release or disposal, accounting for vehicle information, pickup and storage locations, towing information, and all fees, payments associated with the impound including credit card processing.

The City is researching commercial-off-the-shelf and cloud hosted solutions. The funds in FY 2022 will support the replacement of the legacy software with a new system.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

LIBRARY IT EQUIPMENT REPLACEMENT

DOCUMENT SUBSECTION:	Other System Development Projects	PROJECT LOCATION:	Citywide
MANAGING DEPARTMENT:	Libraries	REPORTING AREA:	Citywide
PRIMARY STRATEGIC THEME:	Theme 7: Thriving Children & Youth	PROJECT CATEGORY:	IT Plan
		ESTIMATE USEFUL LIFE:	Varies

Library Information Technology Equipment Replacement													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	257,438	225,438	32,000	0	0	0	0	0	0	0	0	0	32,000
Financing Plan													
Cash Capital	217,438	185,438	32,000	0	0	0	0	0	0	0	0	0	32,000
GO Bonds	40,000	40,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	257,438	225,438	32,000	0	0	0	0	0	0	0	0	0	32,000

CHANGES FROM PRIOR YEAR CIP

Funding in the amount of \$32,000 added to FY 2022 to replace end of life equipment.

PROJECT DESCRIPTION & JUSTIFICATION

The Alexandria Library must periodically update and install new equipment in library facilities to replace outdated computers, end-of-life servers, software and materials that will be used to meet both staff and community technology needs. These resources are vital for the Library's ability to continue meeting customer expectations.

In prior needs assessment studies, community members indicated that they require access to new and up-to-date technology. This has become a priority in the Library's current Five-Year Plan. Through the use of the Urban Library Council's Edge Initiative, the City has identified multiple areas requiring technology updates. The Edge Initiative is a management and leadership tool that Library staff can use to elevate and strengthen public access technology services to achieve community goals. This initiative further addresses the outcomes of the Library's community needs assessment.

The Library has reviewed and assessed the costs of replacing and adding equipment to all its facilities. After initial purchase, equipment replacement, maintenance, and upgrading costs would be absorbed through individual vendor agreements and maintenance contracts. Library staff will be responsible for implementing and maintaining equipment during daily operations. All Library hardware will be inventoried as standard practice. All web-based equipment will include necessary software for internet security and antivirus control along with security procedures to identify usage and track location. Onsite equipment will be equipped with standard hardware and software resources to protect investment and will comply with all Commonwealth of Virginia required data backup and storage laws.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

Alexandria Library Five-Year Plan

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

LIBRARY PUBLIC ACCESS COMPUTERS AND PRINT MGMT SYSTEM

DOCUMENT SUBSECTION: Other System Development Projects
 MANAGING DEPARTMENT: Libraries
 PRIMARY STRATEGIC THEME: Theme 7: Thriving Children & Youth

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide
 PROJECT CATEGORY: IT Plan
 ESTIMATE USEFUL LIFE: Varies

Library Public Access Computers and Print Mgmt System													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	130,000	45,000	0	85,000	0	0	0	0	0	0	0	0	85,000
Financing Plan													
Cash Capital	130,000	45,000	0	85,000	0	0	0	0	0	0	0	0	85,000
Financing Plan Total	130,000	45,000	0	85,000	0	0	0	0	0	0	0	0	85,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

No changes from previous CIP.

PROJECT DESCRIPTION & JUSTIFICATION

Alexandria's libraries maintain an automated system for managing the computers made available to the public. The system manages the waiting lists for computers, monitoring time limits for computer sessions, and manages customer printing. A new system with enhanced features that accepts credit card payments for print jobs was implemented in April 2017. The upgraded kiosk system has improved service options for Library users, including the ability to print from USB drives. In 2018, a wireless printing component was implemented, allowing users to print from their mobile devices. This updated system also accepts credit card payments using modern chip and pin compatible terminals, resulting in PCI Compliance. The system has also improved the Libraries' accounting and reporting functions. Library users have responded positively to an updated process that offers additional features and the convenience of credit card payments. The systems that have been successfully implemented in prior years are currently in a sustain and maintain status. Funds will be used in the latter part of FY 2023 to upgrade and/or replace necessary components.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

Alexandria Library Five-Year Plan

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

LIBRARY SCANNING EQUIPMENT AND DAMS

DOCUMENT SUBSECTION:	Other System Development Projects	PROJECT LOCATION:	Citywide
MANAGING DEPARTMENT:	Libraries	REPORTING AREA:	Citywide
PRIMARY STRATEGIC THEME:	Theme 7: Thriving Children & Youth	PROJECT CATEGORY:	IT Plan
		ESTIMATE USEFUL LIFE:	Varies

Library Scanning Equipment and DAMS													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	60,400	60,400	0	0	0	0	0	0	0	0	0	0	0
Financing Plan													
Cash Capital	60,400	60,400	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	60,400	60,400	0	0	0	0	0	0	0	0	0	0	0
Operating Impact	87,500	0	0	8,600	8,900	9,100	9,400	9,700	10,000	10,300	10,600	10,900	87,500

CHANGES FROM PRIOR YEAR CIP

No changes from previous CIP.

PROJECT DESCRIPTION & JUSTIFICATION

The Alexandria Public Library's Local History/Special Collections branch needs a Digital Asset Management System (DAMS). A DAMS is an essential business need for special collection repositories due to the users being geographically dispersed. The cataloging module of the DAMS software will allow discoverability of the collection in the Library catalog. It is equally important to improve access to materials through a DAMS for those City agencies involved with planning, tourism, archaeology, and infrastructure. A DAMS will allow for digital access to materials, and it will also allow for the information to be re-used by other national, State, and City-level sites and projects.

The Library's Local History/Special Collections has a specialized collection which includes microfilm and microfiche. Approved prior year funding is currently being used to procure micrographic equipment and associated equipment, as well as the Digital Asset Management System (DAMS). The scope of work that's in progress includes the installation, configuration, training, and implementation of the new system. Staff anticipates that once this system is fully implemented and in production that it will be utilized by customers when doing historical and genealogical research.

The Library's existing equipment is nearly 20 years old and was becoming increasingly difficult to maintain. In addition, the equipment cannot connect with the Library's print management system, making printing less efficient, as well as making paying for printouts cumbersome. The planetary scanner was also nearly 20 years old and it is used by researchers to photocopy historical books, documents, and maps which are housed in Local History.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

There will be annual maintenance paid to the vendor to keep the software/hardware up to date and supported which usually amounts to 10-20% of the acquisition costs.

LIBRARY SELF-SERVICE STATIONS/EQUIPMENT

DOCUMENT SUBSECTION:	Other System Development Projects	PROJECT LOCATION:	Citywide
MANAGING DEPARTMENT:	Libraries	REPORTING AREA:	Citywide
PRIMARY STRATEGIC THEME:	Theme 7: Thriving Children & Youth	PROJECT CATEGORY:	IT Plan
		ESTIMATE USEFUL LIFE:	0 - 5 Years

Library Self-Service Stations/Equipment													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	310,296	158,296	0	0	0	152,000	0	0	0	0	0	0	152,000
Financing Plan													
Cash Capital	310,296	158,296	0	0	0	152,000	0	0	0	0	0	0	152,000
Financing Plan Total	310,296	158,296	0	0	0	152,000	0	0	0	0	0	0	152,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

No changes from previous CIP.

PROJECT DESCRIPTION & JUSTIFICATION

The Alexandria Library's self-service equipment (offering options for actions such as borrowing and renewing materials and paying fines and fees) began to be upgraded in FY 2018. The equipment was replaced at the Beatley Central Library with new improved self-service equipment that includes the Payment Card Industry Data Security Standard (PCI) for credit card payments, RFID integration, and higher accuracy.

This system allows staff to have more flexibility freeing them from clerical duties, allowing them to focus on additional responsibilities such as program planning, passport processing and outreach services. Neighboring library systems, including Arlington, Prince George's, and Baltimore Counties, also report that 80% to 90% of all circulation transactions (checkout, renewals, fine payments) take place using self-service equipment, allowing Library staff to focus on other tasks.

This software/equipment was installed in every branch of the Library and began service in FY 2020. There will be a need for a replacement or refresh of the system in the coming years. The hardware and software that is in place will be reaching end-of-life in five years and the equipment will need to be replaced with updated hardware and software to maintain reliability. Funds in FY 2025 are to replace the current system. The project aligns with the Library's Five-Year Plan, which seeks to increase technology use in Library facilities, focus staff attention on educational programming for the community, improve access to Library collections, and highlight efforts to improve customer service.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

Alexandria Library Five-Year Plan

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

MIGRATION OF INTEGRATED LIBRARY SYSTEM TO SAAS PLATFORM

DOCUMENT SUBSECTION: Other System Development Projects

PROJECT LOCATION: Citywide

MANAGING DEPARTMENT: Libraries

REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 7: Thriving Children & Youth

PROJECT CATEGORY: IT Plan

ESTIMATE USEFUL LIFE: Varies

Migration of Integrated Library System to SAAS Platform													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	42,000	42,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan													
Cash Capital	42,000	42,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	42,000	42,000	0	0	0	0	0	0	0	0	0	0	0
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

No changes from previous CIP.

PROJECT DESCRIPTION & JUSTIFICATION

The Alexandria Library migrated from an on-premises Integrated Library Management System (ILS) to a “software-as-a-service” (SAAS) based system. Through an annual SAAS agreement, equipment replacement, maintenance, and upgrading costs are absorbed with the Libraries’ ILS provider. All ILS software and hardware services were migrated to cloud services with the exception of various telephone notification services and 3rd party bank payment systems. By moving to a cloud-based platform, the Library realized many benefits, including:

- Continuous technical support and monitoring; seamless system upgrades with no downtime; remote repairs, replacements and maintenance;
- Secure 24/7 system access and monitoring from any computer/device with online access for/by library staff;
- Creation of more opportunities for enhancing community outreach services; and,
- Improved compatibility with Library third party vendor services.

This project has been completed, and it has been in production for several years. The Library Integrated Management System is currently in a sustain and maintain status, but it may need to be replaced in the next 2-3 years. The ILS is the heart of most of what the library does and encompasses both the circulation system and the catalog. The Library staff plan to proactively start researching the market in anticipation of doing a replacement or upgrade of the current system.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

Alexandria Library Five-Year Plan

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

OFFICE OF VOTER REGISTRATIONS AND ELECTIONS EQUIPMENT REPLACEMENT

DOCUMENT SUBSECTION: Other System Development Projects

PROJECT LOCATION: Citywide

MANAGING DEPARTMENT: Voter Registration and Elections

REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed Government

PROJECT CATEGORY: IT Plan
ESTIMATE USEFUL LIFE: 5-7 years

Office of Voter Registrations and Elections Equipment Replacement													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	1,100,000	100,000	0	0	0	0	0	0	0	1,000,000	0	0	1,000,000
Financing Plan													
Cash Capital	1,100,000	100,000	0	0	0	0	0	0	0	1,000,000	0	0	1,000,000
Financing Plan Total	1,100,000	100,000	0	0	0	0	0	0	0	1,000,000	0	0	1,000,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

No changes from previous CIP.

PROJECT DESCRIPTION & JUSTIFICATION

The City periodically purchases electronic poll books (EPBs), which can be laptops and related hardware and software. The Virginia State Board of Elections (SBE) assists the City in keeping current with its required electronic poll books by certifying vendors that the City can purchase from directly. The City keeps the EPBs current by maintaining a version that is certified by the Virginia State Board of Elections (SBE). Prior year funds were used to replace approximately 60% of the City's EPBs to help support the 2020 Presidential Election. It's possible that the remaining inventory of electronic poll books will also need to be replaced soon if there is a State mandate requiring them to be upgraded.

Funds have already been proactively budgeted in FY 2029 for the anticipated replacement of the voting equipment system. It is anticipated that additional funds will also be required in the out years to replace the electronic poll books and related hardware at the end of their current life cycle.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

OHA POINT-OF-SALE SYSTEM REPLACEMENT

DOCUMENT SUBSECTION: Other System Development Projects

PROJECT LOCATION: 801 South Payne Street

MANAGING DEPARTMENT: Office of Historic Alexandria

REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 5: Flourishing Arts, Culture & Recreation

PROJECT CATEGORY: IT Plan
ESTIMATE USEFUL LIFE: 6- 10 Years

OHA Point of Sale System Replacement													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	150,000	0	0	0	150,000	0	0	0	0	0	0	0	150,000
Financing Plan													
Cash Capital	150,000	0	0	0	150,000	0	0	0	0	0	0	0	150,000
Financing Plan Total	150,000	0	0	0	150,000	0	0	0	0	0	0	0	150,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

No changes from previous CIP.

PROJECT DESCRIPTION & JUSTIFICATION

The purpose of the Point of Sale (POS) system is to provide for in-person and online retail sales for the Office of Historic Alexandria's (OHA) museums and retail stores. The City's Office of Historic Alexandria implemented the point of sale system as a pilot in 2012. The application has been in production for over 8 years. The point of sale system is currently used at 8 brick and mortar locations and it has an integrated online shop. Other departments, mostly DCHS, use the POS system to collect online donations, under the administration of OHA. The current POS system is now near end-of-life and it will need to be replaced in the near future. OHA also has a need for a tablet module that could be used at outdoor events, but this is not available from the current vendor.

Funding in FY 2024 will be used to do some initial discovery sessions of what's available on the market followed by the procurement of a replacement solution. Once OHA finds a suitable solution they will move forward with a procurement of the necessary hardware and software. The scope of work will include installation, configuration, training, and implementation of the new system(s).

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

OHA RECORDS MANAGEMENT SYSTEM REPLACEMENT

DOCUMENT SUBSECTION:	Other System Development Projects	PROJECT LOCATION:	801 South Payne Street
MANAGING DEPARTMENT:	Office of Historic Alexandria	REPORTING AREA:	Citywide
PRIMARY STRATEGIC THEME:	Theme 5: Flourishing Arts, Culture & Recreation	PROJECT CATEGORY:	IT Plan
		ESTIMATE USEFUL LIFE:	6 - 10 Years

OHA Records Management System Replacement													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	105,000	100,000	5,000	0	0	0	0	0	0	0	0	0	5,000
Financing Plan													
Cash Capital	105,000	100,000	5,000	0	0	0	0	0	0	0	0	0	5,000
Financing Plan Total	105,000	100,000	5,000	0	0	0	0	0	0	0	0	0	5,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Funding added to FY 2022 (\$5,000) to upgrade and migrate the City's current Records Management System.

PROJECT DESCRIPTION & JUSTIFICATION

This project funds the upgrade of the Office of Historic Alexandria's Records Management System. This software is used for tracking the large collections of City records and making them available to both City employees and the public, in accordance with all applicable State and local regulations governing the management of City records. The records management software is essential to providing business process efficiency while ensuring regulatory compliance. This software is currently in a sustainment phase and funding will be used to keep the system current with the software lifecycle.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

Office of Historic Alexandria Departmental Five-Year Strategic Plan, FY 2012-2016, currently undergoing revision.

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

PERMIT PROCESSING

DOCUMENT SUBSECTION: Other System Development Projects
 MANAGING DEPARTMENT: Department of Code Administration

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 6: Strong Economy

PROJECT CATEGORY: IT Plan
 ESTIMATE USEFUL LIFE: 11 - 15 Years

Permit Processing													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	5,017,167	5,017,167	0	0	0	0	0	0	0	0	0	0	0
Financing Plan													
Code Fund Balance	5,017,167	5,017,167	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	5,017,167	5,017,167	0	0	0	0	0	0	0	0	0	0	0
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Subsequent to the presentation of the City Manager's Proposed FY 2022 - FY 2031 CIP, staff determined that adequate project funding from prior appropriations is available to complete needed work for this project. Funding for Fiscal Years 2022 through 2031 were removed.

PROJECT DESCRIPTION & JUSTIFICATION

This project funds the system used for the administration of the City's land development process and is used by multiple agencies including Code Administration, Transportation & Environmental Services, Planning & Zoning, Fire, Office of Historic Alexandria, Finance, and the Health Department. The City recently implemented a new land management system, APEX. APEX replaced the 20-year-old legacy system and offers electronic application, plan submission and review for permits and land use applications; online payments; real-time status tracking for permit and land use applications; online inspection scheduling, tracking and updates; advanced search capabilities; and easy, effective communication with customers.

Permit processes include the administration of commercial and residential permits for building and trade work, fire prevention, outdoor dining, elevators, noise permits, and the residential rental inspections program. The permitting system also supports administrative and City ordinance processes such as site plans, developmental special use permits, special use permits (SUP), board of architectural review cases (BAR), Board of Zoning Appeal cases, certificates of occupancy, code modifications, vacant building registrations, unfit properties, hauling, reserved parking, and complaint processes regarding maintenance of existing structures, civil penalties, fire inspections, tenant/landlord complaints, SUP and BAR violations.

In FY 2021 and FY 2022 APEX application software will be upgraded to incorporate desired functionality improvements and maintain software viability and industry compliance. The upgraded application will provide enhanced interoperability to include mobile platform readiness. Additionally, improvements to electronic plan review will provide City inspectors and planners an even more efficient and transparent method of interacting with City customers. As a result of the upgrade requirement, vendor support services will be required for deployment and training.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A.

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

RECREATION DATABASE SYSTEM

DOCUMENT SUBSECTION:	Other System Development Projects	PROJECT LOCATION:	Citywide
MANAGING DEPARTMENT:	Department of Recreation, Parks, and Cultural Activities	REPORTING AREA:	Citywide
PRIMARY STRATEGIC THEME:	Theme 5: Flourishing Arts, Culture & Recreation	PROJECT CATEGORY:	IT Plan
		ESTIMATE USEFUL LIFE:	6 - 10 Years

Recreation Database System													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	595,000	250,000	200,000	10,000	10,000	10,000	65,000	10,000	10,000	10,000	10,000	10,000	345,000
Financing Plan													
Cash Capital	595,000	250,000	200,000	10,000	10,000	10,000	65,000	10,000	10,000	10,000	10,000	10,000	345,000
Financing Plan Total	595,000	250,000	200,000	10,000	10,000	10,000	65,000	10,000	10,000	10,000	10,000	10,000	345,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Funding originally reduced in FY 2021 due to the COVID-19 public health emergency was restored to FY 2026, in the amount of \$55,000. Funding added to project for FY 2031.

PROJECT DESCRIPTION & JUSTIFICATION

This system manages the day-to-day operations of the recreation centers and other ancillary programs administered by the Department of Recreation, Parks, and Cultural Activities. The Recreation Database System is a central citizen/customer database, providing financial and statistical reporting, activity registration, facility reservations, and pass management.

The system will undergo a major upgrade in FY 2022, where the legacy forms-based software will be replaced by a new web-based version available from the current software vendor. The City is also evaluating the potential of utilizing the vendor's private cloud to host the recreation system as a "Software as a Service" solution, which would occur concurrent with the upgrade activities.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

SMALL SYSTEMS REPLACEMENTS

DOCUMENT SUBSECTION:	Other System Development Projects	PROJECT LOCATION:	Citywide
MANAGING DEPARTMENT:	Department of Information Technology Services	REPORTING AREA:	Citywide
PRIMARY STRATEGIC THEME:	Theme 3: Well-Managed Government	PROJECT CATEGORY:	IT Plan
		ESTIMATE USEFUL LIFE:	5 - 10 Years

Small Systems Replacements													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	1,250,000	0	0	0	0	0	0	250,000	250,000	250,000	250,000	250,000	1,250,000
Financing Plan													
Cash Capital	1,250,000	0	0	0	0	0	0	250,000	250,000	250,000	250,000	250,000	1,250,000
Financing Plan Total	1,250,000	0	0	0	0	0	0	250,000	250,000	250,000	250,000	250,000	1,250,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Funding added to project for FY 2031.

PROJECT DESCRIPTION & JUSTIFICATION

Funding in the out years for this project will be for programming services, the acquisition of commercial-off-the-shelf packages, or cloud hosted solutions for applications that are primarily single-user and/or which provide critical support for department priorities. ITS staff supports and administers several dozens of these applications that must be properly sustained and upgraded to keep pace with current technologies.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

CUSTOMER RELATIONSHIP MANAGEMENT SYSTEM

DOCUMENT SUBSECTION: Public Access Development
 MANAGING DEPARTMENT: Department of Emergency and
 Customer Communications

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed
 Government

PROJECT CATEGORY: IT Plan
 ESTIMATE USEFUL LIFE: 6 - 10 Years

Customer Relationship Management System													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	1,725,000	1,725,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan													
Cash Capital	1,525,000	1,525,000	0	0	0	0	0	0	0	0	0	0	0
GO Bond Interest Earnings	125,000	125,000	0	0	0	0	0	0	0	0	0	0	0
GO Bonds	75,000	75,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	1,725,000	1,725,000	0	0	0	0	0	0	0	0	0	0	0
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

No changes from previous CIP.

PROJECT DESCRIPTION & JUSTIFICATION

The City's Customer Relationship Management System (Alex311) provides a central coordination of requests for service from the public and other external stakeholders. This is a City-wide effort to meet customers' expectations by connecting them to information, services and solutions. Alex311 is managed centrally by the Department of Emergency and Customer Communications (DECC). Technology enhancements to Alex311 are vetted by the Alex311 Steering Committee (staff from Information Technology Services, the Office of Communications and Public Information, and the departments with the highest volume of customer requests). The Alex311 team will be the front line of assistance for all customer service requests, inquiries, complaints and commendations.

To support the 311 customer service efforts the City purchased a new customer relationship management software to manage our relationships with customers by tracking requests, actions and communications. The City's new CRM solution (replacing Call-Click-Connect) was launched in February 2020. New and enhanced capabilities, such as a knowledge base of commonly asked questions, custom response templates, collaboration tools, GIS data, and integrations with other city enterprise systems will be available to help staff provide efficient and accurate customer service. Expansive reporting capabilities are also built into this new software which will allow the Alex311 team to gauge how well we meet customer service goals.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

ELECTRONIC GOVERNMENT/WEB PAGE

DOCUMENT SUBSECTION: Public Access Development
 MANAGING DEPARTMENT: Information Technology Services
 Department

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed
 Government

PROJECT CATEGORY: IT Plan
 ESTIMATE USEFUL LIFE: Varies

Electronic Government/Web Page													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	2,588,196	1,678,196	160,000	50,000	250,000	50,000	50,000	50,000	50,000	0	0	250,000	910,000
Financing Plan													
Cash Capital	2,363,196	1,453,196	160,000	50,000	250,000	50,000	50,000	50,000	50,000	0	0	250,000	910,000
GO Bonds	125,000	125,000	0	0	0	0	0	0	0	0	0	0	0
Private Capital Contributions	100,000	100,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	2,588,196	1,678,196	160,000	50,000	250,000	50,000	50,000	50,000	50,000	0	0	250,000	910,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Funding added to project for FY 2031.

PROJECT DESCRIPTION & JUSTIFICATION

The E-Government project includes enhancements to, and applications for, the City of Alexandria's public website, www.alexandriava.gov, related sites and various technology innovation initiatives in the City to benefit both the general public and City employees. The current major initiative is the replacement of the City's Content Management System (CMS) which runs both the City's public facing website and its internal Intranet. Work includes enhancements to both in design and functionality of the sites and the identification and implementation of new on-line services to further expand the public's and City employees' digital experience. This work will result in website that is more easily edited, and whose front page is more engaging and has a higher value content shared with page visitors at the initial point of entry.

The website replacement project will be completed in FY 2022, and staff resources will then be directed to begin the replacement of the City's intranet (AlexNet).

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

AJIS SYSTEM

DOCUMENT SUBSECTION: Public Safety Systems

PROJECT LOCATION: Judges Chamber, 4th Floor
Courthouse 520 King St.
Alexandria, VA 22314

MANAGING DEPARTMENT: Circuit Court

REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 4: Safe & Resilient
Community

PROJECT CATEGORY: IT Plan

ESTIMATE USEFUL LIFE: Varies

AJIS System													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	18,877,013	10,106,013	3,401,000	1,829,000	259,000	259,000	268,000	258,000	258,000	257,000	257,000	1,725,000	8,771,000
Financing Plan													
Cash Capital	12,081,515	6,310,515	401,000	1,829,000	259,000	259,000	268,000	258,000	258,000	257,000	257,000	1,725,000	5,771,000
GO Bonds	309,002	309,002	0	0	0	0	0	0	0	0	0	0	0
Reprogrammed Capital Balances	3,486,496	3,486,496	0	0	0	0	0	0	0	0	0	0	0
Use of CIP Designated Fund Balance	3,000,000	0	3,000,000	0	0	0	0	0	0	0	0	0	3,000,000
Financing Plan Total	18,877,013	10,106,013	3,401,000	1,829,000	259,000	259,000	268,000	258,000	258,000	257,000	257,000	1,725,000	8,771,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Funding in the amount of \$41,000 added to FY 2022 to update the jury management system. Funding added to project for FY 2031 for staffing costs.

PROJECT DESCRIPTION & JUSTIFICATION

The Alexandria Justice Information System (AJIS) provides multiple City agencies and the law enforcement community with access to civil, criminal court and inmate management data, mug shots, documents, and reports. Users depend on AJIS to provide mission-critical judicial and jail management information. AJIS interfaces with other systems to furnish data to other local, regional, and national law enforcement agencies. The AJIS system is critically important to the entire judicial process for the City.

The AJIS system is beyond the end of its useful life and needs to be replaced. Continuing maintenance is becoming a challenge, making this a high priority project. In FY 2020, staff defined system needs, analyzed available products, and determined the additional budgetary needs that would be required to replace AJIS. During this process an in-depth third-party assessment was conducted, and the stakeholders determined the best option was to use the state's court system (currently being implemented) and identify the needed technology for judicial processes, jail management, and warrant management. The City is currently developing a Request for Proposals (RFP) that will be issued in summer 2021 for the required systems. The project funding will include contract assistance required throughout the multi-year implementation to assist with system acquisition and implementation.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

COMPUTER AIDED DISPATCH (CAD) SYSTEM REPLACEMENT

DOCUMENT SUBSECTION: Public Safety Systems
MANAGING DEPARTMENT: Department of Emergency Communications

PROJECT LOCATION: Citywide
REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 4: Safe & Resilient Community

PROJECT CATEGORY: IT Plan
ESTIMATE USEFUL LIFE: 11 - 15 Years

Computer Aided Dispatch (CAD) System Replacement													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	24,672,500	16,675,500	104,000	108,000	114,000	6,819,000	125,000	132,000	138,000	145,000	152,000	160,000	7,997,000
Financing Plan													
Cash Capital	8,173,400	6,016,500	104,000	108,000	114,000	978,900	125,000	132,000	138,000	145,000	152,000	160,000	2,156,900
GO Bonds	16,184,100	10,344,000	0	0	0	5,840,100	0	0	0	0	0	0	5,840,100
Prior Year CIP/Close-Out	315,000	315,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	24,672,500	16,675,500	104,000	108,000	114,000	6,819,000	125,000	132,000	138,000	145,000	152,000	160,000	7,997,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Funding added for the project's existing IT Support Engineer position, which was previously funded via available project balanced. Ongoing funded added for the position for FY 2022 - 2031.

PROJECT DESCRIPTION & JUSTIFICATION

This project funds ongoing improvements to the City's state-of-the-art Computer Aided Dispatch (CAD) system that meets the consolidated requirements of the Department of Emergency Communications, Alexandria Police, Alexandria Fire, and Alexandria Sheriff's Office. This system provides reliable and assured response to the region while performing mission-critical public safety functions.

In FY 2013, the City of Alexandria initiated a project for the design, implementation, and support of a CAD System for Law Enforcement and Fire/EMS with an integrated Mobile Data client (Mobile), Law Enforcement Records Management System (RMS) and Electronic Patient care reporting (ePCR) System. In January 2015, the City successfully deployed several critical components of the system that best met its functional, technical and integration requirements in a cost-effective manner. In April 2017, the Police RMS and Field Based Reporting systems went live. The City continues to work with vendors to implement critical system element (for Police RMS, CAD, and Fire/EMS). In FY 2018, the CAD governance committee approved using a portion of the project funds for the Police Department's eCitation pilot. Since CAD systems are never turned off and must function (and be redundant) 24 hours a day and 7 days a week, replacements and upgrades must be made to keep the system current and viable and support the long-term maintenance of the CAD project.

In FY 2021, funding was used to upgrade the current application and replace end-of-life equipment which supports the essential functions of the CAD and mapping server. The upgraded application will provide enhancements needed for bi-directional responses, testing and implementation. Additionally, a third-party expert is conducting an in-depth CAD assessment to include a strategic plan for all future technology enhancements along with options and recommendations. The assessment will also include potential opportunities with neighboring jurisdictions which may provide cost-savings and/or increased resiliency. The City will also strive to remain compliant with any required upgrades to ensure the application remains viable.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

COURTROOM TRIAL PRESENTATION TECHNOLOGY

DOCUMENT SUBSECTION: Public Safety Systems

PROJECT LOCATION: Circuit Court Judges Chambers
Franklin P. Backus Courthouse
520 King Street, 4th Floor
Alexandria, VA 22314MANAGING DEPARTMENT: Information Technology Services
Department

REPORTING AREA: Old Town

PRIMARY STRATEGIC THEME: Theme 4: Safe & Resilient
CommunityPROJECT CATEGORY: IT Plan
ESTIMATE USEFUL LIFE: Varies

Courtroom Trial Presentation Technology													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	852,809	427,809	0	100,000	0	0	100,000	100,000	25,000	0	0	100,000	425,000
Financing Plan													
Cash Capital	852,809	427,809	0	100,000	0	0	100,000	100,000	25,000	0	0	100,000	425,000
Financing Plan Total	852,809	427,809	0	100,000	0	0	100,000	100,000	25,000	0	0	100,000	425,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Funding added to project for FY 2031.

PROJECT DESCRIPTION & JUSTIFICATION

For the past decade, the use of electronic presentation technology in courtrooms has become a widely accepted and successful practice throughout the judicial system, and is currently in use in Fairfax, Arlington and Prince William Counties. The Alexandria Circuit Court has three courtrooms that are used for various court proceedings including jury trials, bench trials, motions, and hearings.

This project provides funding for Courtroom Trial Presentation Technology that will provide citizens, the Commonwealth Attorneys, Public Defenders, private attorneys and litigants a more modern and convenient way to present evidence during court proceedings. In addition, the courtrooms are utilized by City departments and agencies such as the Court Service Unit for their court-ordered parenting classes (FOCUS); the Alexandria Bar Association for their continuing legal education seminars; and the Sheriff's Office for their swearing-in ceremonies and occasional training sessions. The upgrades also enable video conferencing technology, which allows witnesses and inmates to testify at trial without being physically present in the courtroom.

This is a multi-year project, which will be completed in phases, where several courtrooms are getting technology refreshes of electronic presentation systems and audio video (A/V) equipment. Circuit Court Courtroom 2 technology components have been implemented. Due to the pandemic, the project was slightly delayed and the scope expanded. However, the scope expansion did not affect the original allocated budget. Circuit Court Courtroom 4 will be upgraded next.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

ELECTRONIC CITATION IMPLEMENTATION

DOCUMENT SUBSECTION: Public Safety Systems
 MANAGING DEPARTMENT: Information Technology Services
 Department

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 4: Safe & Resilient
 Community

PROJECT CATEGORY: IT Plan
 ESTIMATE USEFUL LIFE: Varies

Electronic Citations Implementation													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	840,000	0	420,000	0	0	0	0	0	0	0	0	420,000	840,000
Financing Plan													
Cash Capital	840,000	0	420,000	0	0	0	0	0	0	0	0	420,000	840,000
Financing Plan Total	840,000	0	420,000	0	0	0	0	0	0	0	0	420,000	840,000

CHANGES FROM PRIOR YEAR CIP

Due to FY 2021 funding reductions in response to the COVID-19 public health emergency, funding for this project was reduced by \$420,000. This funding has been restored to the project in FY 2022. Funding added to project for FY 2031 in anticipation of an eventual system replacement.

PROJECT DESCRIPTION & JUSTIFICATION

The current Police traffic citation process is largely manual, and paper based. The manual process can result in data entry errors, backlog of data input, and insufficient, untimely analytical abilities. The Alexandria Police Department conducted a pilot program of 25 police officers for electronic citations using limited approved funding from the CAD project. The pilot program involves participation from Police, Courts, and the ITS departments. The electronic citation program will fully automate the ticketing process: from the creation of the ticket to processing within the courts.

FY 2022 funding will allow for the implementation of electronic citations for an additional 225 users. Officers will use their already assigned mobile phones to issue tickets for moving violations. The project benefits include reducing the time needed to process citations, statistical information, auto-complete information, and an automated data interface to the Police records management system. This solution will streamline the citations by moving from paper to electronic based processes.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

FIRE DEPARTMENT RMS

DOCUMENT SUBSECTION: Public Safety Systems
 MANAGING DEPARTMENT: Alexandria Fire Department

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide
 PROJECT CATEGORY: IT Plan
 ESTIMATE USEFUL LIFE: 11 - 15 Years

PRIMARY STRATEGIC THEME: Theme 4: Safe & Resilient
 Community

Fire Dept RMS													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	357,500	50,000	307,500	0	0	0	0	0	0	0	0	0	307,500
Financing Plan													
Cash Capital	357,500	50,000	307,500	0	0	0	0	0	0	0	0	0	307,500
Financing Plan Total	357,500	50,000	307,500	0	0	0	0	0	0	0	0	0	307,500
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

No changes from previous CIP.

PROJECT DESCRIPTION & JUSTIFICATION

The Fire Records Management System (RMS) is an enterprise level application that supports all facets of the fire department operations and encompasses modules for human resource management, training, staffing, emergency incident reporting, billing, emergency preplanning, quality assurance, performance analysis, community outreach, and logistics. The systems are highly integrated and provide efficiencies of scale. In Fall 2016, the Department implemented a replacement system under a highly compressed timeline to meet mandatory NEMSIS-3 compliance. The new vendor's EMS reporting minimally met the federal requirements; however, the Fire (NFIRS) reporting was unusable. The department went back to the old NFIRS software which has been used since 2005. This software is approaching end-of-life and has incompatibilities with Windows 10. Therefore, the Fire Department needs to evaluate and replace the Fire Records Management System and ensure a seamless integration with the EMS Records Management System.

The Fire and EMS/RMS marketplace has been working since the 2016 federal standards to create new software that is both compliant with the NEMSIS-3 standards and can provide one source for data sharing and analysis. In FY 2021, Fire Department staff intended to engage a consultant to identify and scope project costs. COVID-19 changed Fire Department priorities and work plans, so engaging a consultant became impractical. Cancellation of nearly all conferences and trade shows also impacted the ability to perform vendor assessments. The Fire Department has deferred FY 2021 goals to FY 2022. The plan to replace the Fire RMS with a comprehensive system, will be postponed until FY 2023. Refined costs for out years funding will also be identified.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

PARKING CITATION SYSTEM REPLACEMENT

DOCUMENT SUBSECTION: Public Safety Systems
MANAGING DEPARTMENT: Department of Finance

PROJECT LOCATION: Citywide
REPORTING AREA: Citywide
PROJECT CATEGORY: IT Plan
ESTIMATE USEFUL LIFE: 6 - 10 Years/ (Hardware is less)

PRIMARY STRATEGIC THEME: Theme 3: Well-Managed Government

Parking Citation System Replacement													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	545,000	275,000	135,000	0	0	0	0	0	0	0	0	135,000	270,000
Financing Plan													
Cash Capital	545,000	275,000	135,000	0	0	0	0	0	0	0	0	135,000	270,000
Financing Plan Total	545,000	275,000	135,000	0	0	0	0	0	0	0	0	135,000	270,000
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Upon further evaluation, funding deferred to FY 2022 due to the COVID-19 public health emergency (\$395,000) was removed from the project. Funding added to project for FY 2031.

PROJECT DESCRIPTION & JUSTIFICATION

This project funds the parking citation system, which includes parking citation issuance devices, citation processing, collections, online management of parking citation accounts receivables, and reconciliation reporting. This system will be particularly focused in areas with metered parking and residential parking restrictions such as Old Town and Carlyle.

When procuring a replacement solution City staff conducted a market analysis and decided to pursue a system in use by a neighboring jurisdiction. The new turnkey parking citation system is hosted in the cloud by a 3rd party vendor and was placed into production in FY 2021. The new system provides the services of citation issuance, citation processing, account receivables, and collections with reporting flexibility. Now that the new system is in production and actively being used by City staff it is being reviewed for any required post-production enhancements. Funding in FY 2022 will assist with the post-production enhancements and the first year of maintenance.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

Out year funding for annual maintenance agreement will be required.

RADIO SYSTEM UPGRADE

DOCUMENT SUBSECTION: Public Safety Systems
 MANAGING DEPARTMENT: Department of Emergency Communications

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 4: Safe & Resilient Community

PROJECT CATEGORY: IT Plan
 ESTIMATE USEFUL LIFE: 6 - 10 Years

Radio System Upgrade													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Total FY 2022 - FY 2031
Expenditure Budget	14,111,060	2,240,960	950,500	4,657,600	1,520,000	2,742,000	0	0	0	2,000,000	0	0	11,870,100
Financing Plan													
Cash Capital	14,111,060	2,240,960	950,500	4,657,600	1,520,000	2,742,000	0	0	0	2,000,000	0	0	11,870,100
Financing Plan Total	14,111,060	2,240,960	950,500	4,657,600	1,520,000	2,742,000	0	0	0	2,000,000	0	0	11,870,100
Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Funding plan updated to reflect current project schedule and timing.

PROJECT DESCRIPTION & JUSTIFICATION

This project consists of several specific goals spread over multiple fiscal years that are needed to maintain the radio system's current level of reliability, to add features, and to ensure sufficient capacity for radio system users, and implement radio management best practices.

Prior year funding was used to upgrade the core radio components and the 9-1-1 system recorder. The funds were also used to replace the backup power supply at the Masonic Temple, and to replace the air conditioning units. The encryption on the Police Department & Sheriff's Office radios was also upgraded. In FY 2021, funds were utilized to implement remote radio dispatch consoles. Plans for FY 2022 include radio system infrastructure upgrades, including antennas and site HVAC equipment, and an upgrade of the radio network backhaul. A third-party consultant assisted in providing a radio hardware replacement strategy, which will be funded over 3 fiscal years from FY 2023 to FY 2025. These funds will allow for a replacement of the radios and associated infrastructure to keep the system current and viable. A review of alternative communication technology for non-public safety radio users will also be conducted, as alternative technology may prove to be an effective lower cost solution.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

DHS Office of Emergency Communications, "Guidelines for Encryption in Land Mobile Radio Systems", September 2013;
 National Capital Region Strategic Interoperable Encryption Plan,
 Approved by Police Chief's Committee April 28th, 2013;

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.